

SPECIATION DATA SET 3

- Vapor Sampling Recommendations
- Vehicle Fuel Tank Headspace and Refueling Vapor Sampling Procedures
- Jar Headspace Sampling Procedure
- Summary of Shed Dilution and Jar Dilution Sampling Conditions
- Phase 2 Vehicle Tank Data
- Phase 2 and RF-A Jar Data
- Background Shed Data

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MEMORANDUM

To: Paul Hughes, Sarah Carter ARB
Kent Hoekman

From: Stefan Unnasch

Date: September 30, 1995

Subject: Vapor Space Sampling Recommendations, Revised

Here are my revised notes on recommendations for vapor space sampling based on discussions with Kent Hoekman. Please call me to discuss.

1. Recommend both vehicle and equilibrium bottle tests.

Equilibrium composition

2. For equilibrium bottle tests, refer to drawing from Chevron. Collect sample with a syringe. The actual sample volume will be somewhat unknown since the pressure in the syringe is unknown. Actual volume can be determined by injecting a standard; however, we are mostly interested in vapor compositions, so a precise determination of volume is not strictly necessary.

3. Inject the sample into a Tedlar bag with nitrogen dilution. See Chevron diagram, measure dilution volume. Do not use the SHED dilution technique.

4. Use bottle that is 50 percent full of fuel. Consider 500 to 1000 ml bottle. Use caution to avoid fuel weathering during transfer. Chevron recommends chilling 1 to 2 gallons of fuel in a freezer prior to transferring into 500 ml bottle. Otherwise, fill sample bottle quickly and avoid weathering. Prior to sampling, swirl liquid in bottle. Do not shake as liquid may deposit on the lid. Let the bottle sit for one hour. Store bottle in a room with stable ambient temperature close to 75°F. When sampling, make sure that liquid does not come in contact with the needle.

Vehicle vapor tests

5. For vehicle testing, the location of the sampling port is an issue raised by Chevron. One way to resolve the sampling issue is to collect the sample from displaced vapors exiting the vehicle tank. For the purposes of this study, gas composition is more important than vapor mass, at this time.

6. Collect sample from refueling. Build apparatus to simulate Stage 2 recovery. Make sure that no liquid can escape from full tube into vapor capture hose. See drawing. Collect sample during refueling. With the set up of hoses shown in the drawing, vapor from refueling should be expelled through the vapor escape tube and the sample collection tube.

7. Consider 10 ml sample from 1 to 4 gallons of fueling. Collect sample during middle of fueling event. Purge sample or collect sample with syringe and inject into a teflar bag for dilution.
8. Collect sample from vehicle vapor space using sampling technique from 1994 tests. Compare composition of vapors between 6. and 8.

Head Space Sampling Matrix

Test, Condition	Fuels	Runs
Equilibrium vapor space, ~80°F	Phase 2 RF-A	2 samples each fuel, sample at same time
Vehicle refueling displaced vapor	Phase 2 RF-A	Drive vehicle, collect sample while fueling. Drain fuel. Drive vehicle, collect sample while fueling. Repeat next day with new fuel.
Vehicle ullage vapor density	Phase 2 RF-A	Collect sample from vapor space during above tests. Compare with displaced fuel results. 1 sample each fuel.

Proposed Refueling Sampling Apparatus Rev. 2

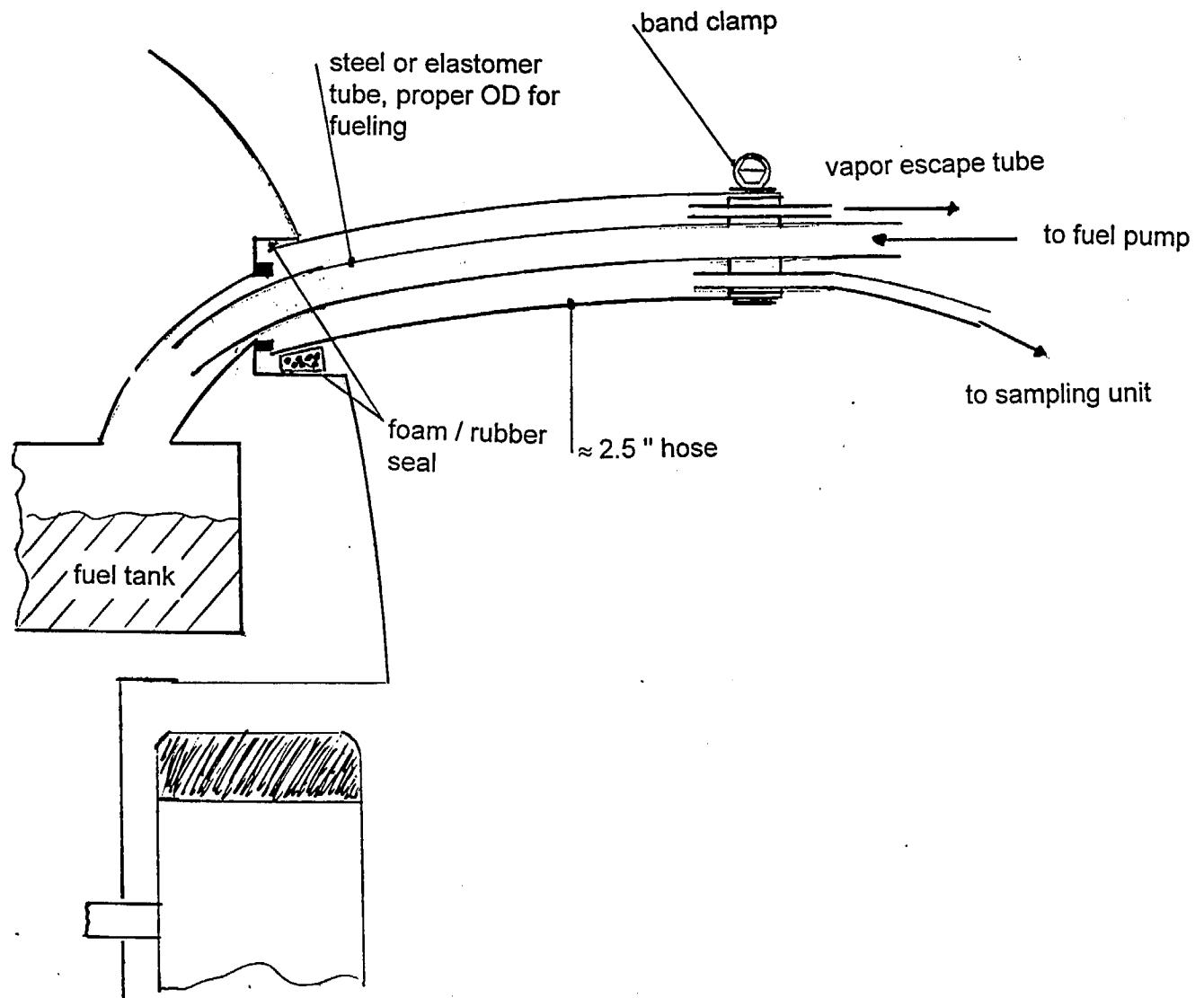
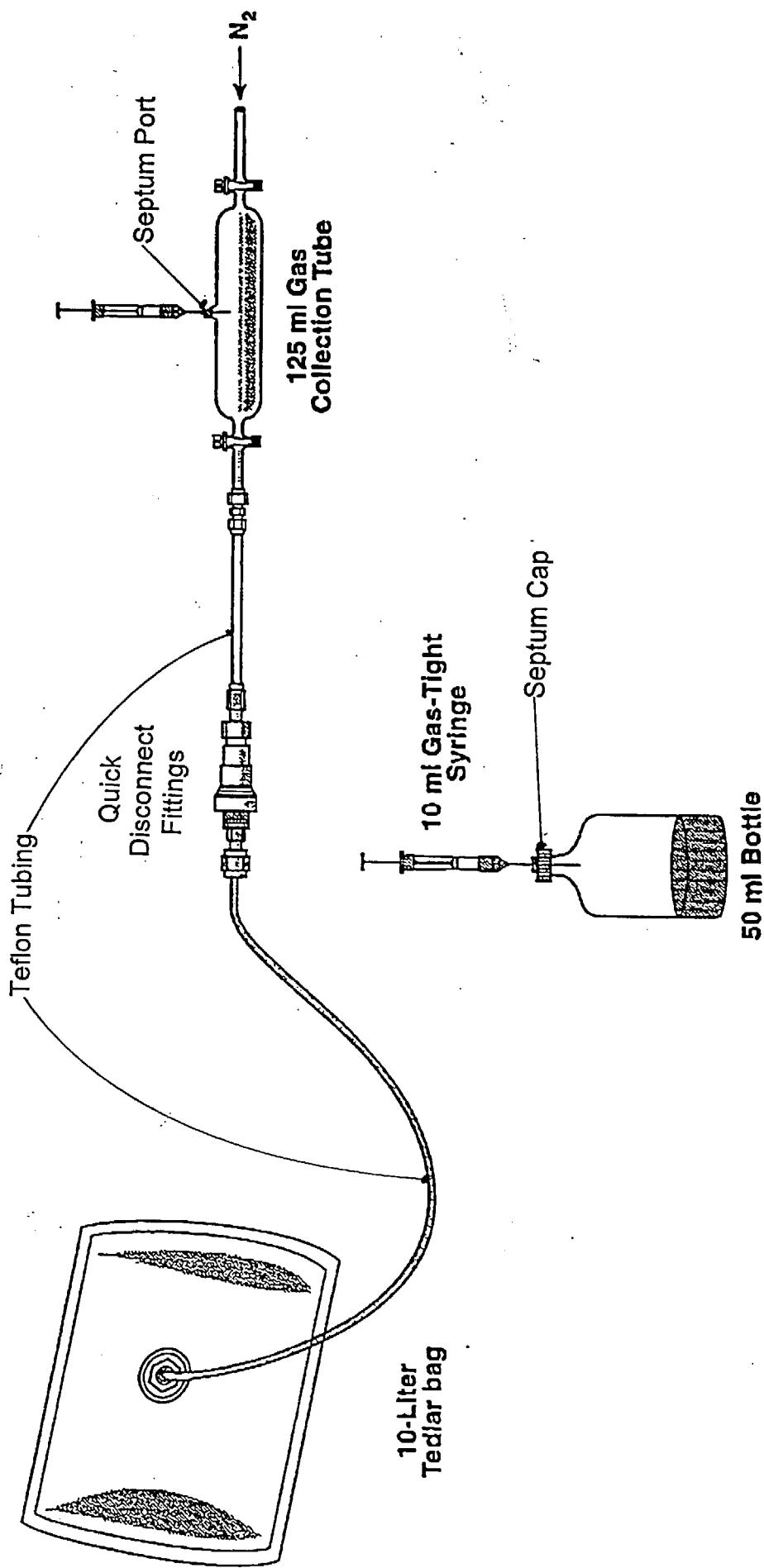


Figure 1
**Sampling Methodology for Gasoline Headspace
Collection**



Vehicle Fuel Tank Headspace and Refueling Vapor Sampling Procedure

1. Vehicle preconditioning with new test fuel.

Note: If the test is being perform with a new test fuel, then perform the step in this section.
The vehicle does not need to be preconditioned for repeat tests with the same fuel.

- a. Drain fuel from the vehicle fuel tank
- b. Purge fuel pump and fuel line with the test fuel.
- c. Add 2 gallons of test fuel into the vehicle fuel tank.
- d. Drive the vehicle 15 miles on the road.

2. Drain and fill to 10% fuel tank capacity.

- a. Purge fuel pump and fuel line with the test fuel.
- b. Fill fuel tank to 10% fuel tank capacity with the test fuel.
- c. Install test cap apparatus.

3. Fuel conditioning.

- a. Drive the vehicle on the road, approximately 25 miles.
- b. Soak the vehicle for 1 hour.

4. Headspace vapor sampling at 10% fuel level.

- a. Connect syringe sampling apparatus (SSA) to the test cap apparatus (TCA).
- b. Connect an evacuated 1L syringe to the end of the SSA.
- c. Fill and purge the syringe with 100ml of vapor 2 times. This flushes the SSA with fuel vapor.
- d. Disconnect the syringe from the SSA.
- e. Insert an evacuated 1ml gas syringe into the septa on the SSA.
- f. Fill and purge the syringe with vapor two times.
- g. Fill the syringe with 1ml of vapor and close the valve at the base of the syringe.

5. Practice dilution of headspace sample at 10% fuel level.

Note: This step is not needed for repeat tests with the same fuel. Sample and dilution volumes determined in the initial practice dilution should be used.

- a. Evacuate a used 20L tedlar bag.
- b. Fill the bag with 10L of nitrogen gas.
- c. Disconnect the SSA from the TCA and purge with nitrogen gas.
- d. Connect the SSA to the 20L bag
- e. Open the valve at the base of the syringe, insert the syringe into the SSA and inject the vapor sample.
- f. Fill and purge the syringe two times to completely purge the vapor from the syringe.

- g. Fill the bag with 5L of nitrogen gas.
- h. Measure the THC concentration using a FID analyzer.
- i. Repeat steps 4.c through 5.h, adjusting the volume of nitrogen in step 5.g to achieve 100 +/- 20 ppmC THC.

Note: If further dilution is required, repeat the procedure using a smaller syringe vapor sample volume.

6. 10% Fuel level headspace vapor sample collection and dilution for specaition.

- a. Collect a vapor sample according to Step 4. The sample volume shall be 1ml unless a smaller sample was determined in step 5.
- b. Evacuate a new 20L tedlar bag.
- c. Fill the bag with 10L of nitrogen gas.
- d. Disconnect connect the SSA from the TCA and purge with nitrogen gas.
- e. Connect the SSA to the 20L bag
- f. Fill and purge the syringe two times to completely purge the vapor from the syringe.
- g. Fill the bag with 5-10L of nitrogen gas as determined in step 5.
- h. Deliver the bag to MLD for speciation.
- i. Collect a second sample according to steps 6.a. through 6.h.

7. FID measurement

- a. After speciating the diluted vapor sample, measure the THC concentration of the vapor samples using the FID analyzer in cell 1.

8. Drain and fill to 10% fuel tank capacity.

Note: This step is needed since as there isles the 10 % fuel in the tank after the prior on-road drive.

- b. Fill fuel tank to 10% fuel tank capacity with the test fuel.
- c. Install test cap apparatus.

8. Fuel conditioning:

- a. Drive the vehicle 25 miles on the road to condition the fuel.

9. Refueling sample collection and first sample dilution.

Note: Because the vapor composition may vary during the refueling process, the following method will be used to collect a composite sample over the entire refueling process.

- a. Fill a 200L tedlar bag with 150L of nitrogen.
- b. Using a 1L syringe, pull about 500ml of vapor through the sample line. This fills the sample line with vapor.
- c. Purge the fuel line with the test fuel.

- d. Open the refueling port on the TCA and connect the fuel nozzle to the **refueling port** of the TCA.
- e. Connect an open line to the **vent port** on the TCA.
- f. Connect the vapor sample line to the **sample port** on the TCA. The sample line routes a portion of the refueling vapor through a flow controller, a flow meter, and finally to the 200L bag.
- g. Fill the fuel at the maximum flow rate (approx. 4 gal/min)

Note: During refueling, regulate the sample flow rate to 1.5L/min and measure the total sample volume.

- h. Measure the total vapor sample volume.
- I. Fill the 200L bag with 50L of nitrogen through the vapor sample line.

10. Practice second dilution of diluted refueling vapor sample.

Note: This step is not needed for repeat tests with the same fuel. Use the sample and dilution volumes determined in the initial practice dilution of the refueling sample.

- a. Evacuate a used 20L tedlar bag.
- b. Fill the bag with 10L of nitrogen gas.
- c. Connect an evacuated 1L syringe to the 200L bag.
- d. Fill and purge the syringe with 300ml from the 200L bag twice.
- e. Fill the syringe with 100ml of sample.
- f. Connect the syringe to the 20L bag and inject the sample into the bag.
- g. Fill and purge the syringe with 300ml of sample twice.
- h. Fill the bag with 5L of nitrogen gas.
- i. Measure the THC concentration of diluted vapors in the 20L bag using a FID analyzer.
- j. Repeat step a through g, adjusting the amount of nitrogen in step g to achieve 100 +/- 20 ppmC THC. If necessary, adjust the sample volume extracted from the 200L bag.

11. Second dilution of refueling vapor sample for speciation.

- a. Evacuate a **new** 20L tedlar bag.
- b. Fill the bag with 10L of nitrogen gas.
- c. Connect an evacuated 1L syringe to the 200L bag.
- d. Fill and purge the syringe with 300ml of diluted vapor from the 200L bag.
- e. Fill the syringe with 100ml of sample unless another sample volume was determined from step 10.
- f. Disconnect the 1L syringe from the 200L bag.
- g. Connect the syringe to the 20L bag and inject the sample into the 20L bag.
- h. Fill and purge the syringe with 300ml of sample twice to flush the syringe.
- i. Fill the bag with 5-10L of nitrogen gas as determined in step 10.
- j. Deliver bag to MLD for speciation.
- k. Collect a second sample according to step 11.a. through 11.i.

12. FID measurement

- a. After speciating the diluted vapor samples, measure the THC concentration of the samples using the FID analyzer in cell 1.

13. Fuel conditioning:

- a. Drive Vehicle on road, approx. 25 miles.
- b. Soak the vehicle for 1 hour.

14. Headspace vapor sampling at 10% fuel level.

- a. Connect syringe sampling apparatus (SSA) to the test cap apparatus (TCA).
- b. Connect an evacuated 1L syringe to the end of the SSA.
- c. Fill and purge the syringe with 100ml of vapor 2 times. This flushes the SSA with fuel vapor.
- d. Disconnect the syringe from the SSA.
- e. Insert an evacuated 1ml gas syringe into the septa on the SSA.
- f. Fill and purge the syringe with vapor two times.
- g. Fill the syringe with 1ml of vapor and close the valve at the base of the syringe.

15. Practice Dilution of headspace sample at 90% fuel level.

Note: This step is not needed for repeat tests with the same fuel. Sample and dilution volumes determined in the initial practice dilution should be used.

- a. Evacuate a used 20L tedlar bag.
- b. Fill the bag with 10L of nitrogen gas.
- c. Disconnect connect the SSA from the TCA and purge with nitrogen gas.
- d. Connect the SSA to the 20L bag
- e. Open the valve at the base of the syringe, insert the syringe into the SSA and inject the vapor sample.
- f. Fill and purge the syringe two times to completely purge the vapor from the syringe.
- g. Fill the bag with 5L of nitrogen gas.
- h. Measure the THC concentration using a FID analyzer.
- i. Repeat steps 14.a through 5.h, adjusting the volume of nitrogen in step 5.g to achieve 100 +/- 20 ppmC THC.

Note: If further dilution is required, repeat the procedure using a smaller syringe vapor sample volume.

16. 90% fuel level headspace vapor sample collection and dilution for specatition.

- a. Collect a vapor sample according to Step 4. The sample volume shall be 1ml unless a smaller sample was determined in step 5.
- b. Evacuate a new 20L tedlar bag.
- c. Fill the bag with 10L of nitrogen gas.
- d. Disconnect connect the SSA from the TCA and purge with nitrogen gas.
- e. Connect the SSA to the 20L bag

- f. Fill and purge the syringe two times to completely purge the vapor from the syringe.
- g. Fill the bag with 5-10L of nitrogen gas as determined in step 5.
- h. Deliver the bag to MLD for speciation.
- i. Collect a second sample according to steps 14.a. through 14.h.

16. FID measurement

- a. After speciating the diluted vapor samples, measure the THC concentration of the samples using the FID analyzer in cell 1.

Jar Headspace Sampling Procedure

1. Preparation of the jar and filling the jar with test fuel.

- a. Refrigerate at approximately 33°F four empty 500ml fuel sampling jars with the lid on.
The jar lids shall be equipped with a septa for headspace vapor sampling.
- b. Place the jars in ice bath and transport to the fueling area.

Note: Fuel samples shall be collected by 10 am in morning when the ambient temperature is relatively cool.

- d. Purge the fuel line with Phase 2 test fuel.
- e. Fill two jars with 250ml of test fuel and seal the jars with the lids immediately after filling.
- f. Record the data the fuel lot number on each jars.
- g. Repeat steps 1.d to 1.f for RFA fuel.
- h. Store the fuels samples overnight in the refrigerator at approximately 33°F.

2. Fuel conditioning.

- a. Place one fuel sample of Phase 2 and RFA on the laboratory counter overnight (12 hours minimum) to stabilize the fuel temperature. The room temperature shall be 72 +/- 5°F.

3. Jar headspace vapor sampling .

- a. Open the valve at the base of the syringe and evacuate the syringe.
- b. Insert the syringe into the septa on the two of the jar for the Phase 2 fuel sample
- b. Fill and purge the syringe two times.
- c. Fill the syringe with 5ml of vapor and close the valve at the base of the syringe.

4. Practice jar headspace vapor dilution.

- a. Evacuate a used 20L tedlar bag.
- b. Fill the bag with 10L of nitrogen gas.
- c. Purge the SSA with nitrogen and connect to the 20L bag.
- f. Insert the syringe into the SSA and open the valve at the base of the syringe.
- e. Inject the sample in the SSA.
- f. Fill and purge the syringe two times to completely purge the vapor from the syringe.
- g. Fill the bag with 10L of nitrogen.
- h. Measure the THC concentration in the bag using the FID analyzer in cell 1.
- i. Repeat steps 3 and 4, adjusting the volume of nitrogen in steps 4.b and 4.g to achieve 100 +/- 20 ppmC THC.

Sample	Date	Time	A. TMP	E. TMP	Syr. Vol.	Bag Vol.	SH Syr Vol.	SHED Vol	FID Conc.	GC Conc.	Dilution	Source Conc.
									blkg/sample	blkg/sample		PPM
S10-RFA-3	10/24/95	10:15 AM	72.4	74			1 L	1644.4 cu.ft.	5.6/28.0 ppm	13,067	46,563	608
SR-RFA-3	10/24/95	11:44 AM	72.6	78			1 L	1664.7 cu.ft.	4.2/38.5 ppm	19,461	47,138	917
S90-RFA-3	10/25/95	7:31 AM	69.7	93			1 L	1683.8 cu.ft.	5.2/47.9 ppm	12,434	25,254	47,678
J-RFA-3	10/25/95	1:20 PM			0.25 ml	5 L	na	na	na	71.1	43,286	20,000
J-RFA-4	10/25/95	1:20 PM			0.25 ml	5 L	na	na	na	88.5	53,841	20,000
J-PFH2-3	10/25/95	1:20 PM			0.25 ml	5 L	na	na	na	66.4	39,696	20,000
J-PFH2-4	10/25/95	1:20 PM			0.25 ml	5 L	na	na	na	72.3	43,164	20,000
												863

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	MIR	TR-PH2-1 PPBC	TR-PH2-2 PPBC	TR-PH2-3 PPBC	TR-PH2-4 PPBC
00074-84-0	ethane	0.25	0	0	0	0
00074-85-1	ethene	7.29	0	0	0	0
00074-98-6	propane	0.48	131	123	210	180
00115-07-1	propene	9.4	0	0	0	0
00075-28-5	methylpropane	1.21	620	605	765	776
00074-86-2	ethyne	0.5	0	0	0	0
00106-97-8	n-butane	1.02	19100	18500	23300	23700
00463-49-0	1,2-propadiene	10.89	0	0	0	0
00624-64-6	trans-2-butene	9.94	41	40	50	50
00106-98-9	1-butene	8.91	18	18	22	22
00115-11-7	2-methylpropene	5.31	29	26	26	26
00590-18-1	cis-2-butene	9.94	35	33	42	43
00463-82-1	2,2-dimethylpropane	0.37	144	140	176	179
00078-78-4	2-methylbutane	1.38	28000	27000	34300	34800
00074-99-7	1-propyne	4.1	0	0	0	0
00590-19-2	1,2-butadiene	10.89	0	0	0	0
00106-99-0	1,3-butadiene	10.89	0	0	0	0
00646-04-8	trans-2-pentene	8.8	1230	1150	1460	1480
00513-35-9	2-methyl-2-butene	6.41	1750	1650	2090	2120
00109-67-1	1-pentene	6.22	546	512	646	654
00563-46-2	2-methyl-1-butene	4.9	1080	1030	1310	1330
00627-20-3	cis-2-pentene	8.8	657	619	788	795
00689-97-4	1-buten-3-yne	9.24	0	0	0	0
00503-17-3	2-butyne	9.24	0	0	0	0
00107-00-6	1-butyne	9.24	0	0	0	0
00542-92-7	1,3-cyclopentadiene	7.66	0	0	0	0

LE-ST

Light End Subtotal

53381.00 51446.00 65185.00 66155.00

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	MIR	PHASE 1 PPBC	TR-PH2-2 PPBC	TR-PH2-3 PPBC	TR-PH2-4 PPBC
00460-12-8	1,3-butadiyne	9.24	0	0	0	0
00563-45-1	3-methyl-1-butene	6.22	122	121	155	156
00109-66-0	n-pentane	1.04	3150	3080	3940	3990
00078-79-5	2-methyl-1,3-butadiene	9.08	41	34	45	44
00558-37-2	3,3-dimethyl-1-butene	4.42	0	0	15	15
02004-70-8	trans-1,3-pentadiene	9.08	27	22	29	29
00075-83-2	2,2-dimethylbutane	0.82	719	706	910	920
00142-29-0	cyclopentene	7.66	160	149	188	191
00691-37-2	4-methyl-1-pentene	4.42	0	0	0	0
00760-20-3	3-methyl-1-pentene	4.42	95	91	115	117
00287-92-3	cyclopentane	2.38	99	94	120	121
00079-29-8	2,3-dimethylbutane	1.07	1740	1680	2160	2190
00563-78-0	2,3-dimethyl-1-butene	4.42	0	0	0	0
01634-04-4	methyl-tert-butyl-ether	0.62	11200	10200	12800	13000
00691-38-3	4-methyl-cis-2-pentene	6.69	0	0	0	0
00107-83-5	2-methylpentane	1.53	3460	3320	4240	4290
00674-76-0	4-methyl-trans-2-pentene	6.69	132	102	125	125
00096-14-0	3-methylpentane	1.52	1570	1490	1910	1940
00592-41-6	1-hexene	4.42	66	61	77	78
00763-29-1	2-methyl-1-pentene	4.42	141	130	164	166
00110-54-3	n-hexane	0.98	636	595	761	771
13269-52-8	trans-3-hexene	6.69	107	98	124	126
07642-09-3	cis-3-hexene	6.69	0	0	0	0
04050-45-7	trans-2-hexene	6.69	207	189	238	241
00625-27-4	2-methyl-2-pentene	6.69	172	160	201	204
00616-12-6	3-methyl-trans-2-pentene	6.69	0	0	0	0
01120-62-3	3-methylcyclopentene	5.65	131	122	154	156
07688-21-3	cis-2-hexene	6.69	82	75	95	96
00922-62-3	3-methyl-cis-2-pentene	6.69	0	0	0	0
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0	0	0	0
00590-35-2	2,2-dimethylpentane	1.40	0	0	0	0
00096-37-7	methylcyclopentane	2.82	369	339	434	439
00108-08-7	2,4-dimethylpentane	1.78	1380	1290	1660	1680

00464-06-2	2,2,3-trimethylbutane	1.32	0	0	0	0
07385-78-6	3,4-dimethyl-1-pentene	3.48	0	0	0	0
02213-32-3	2,4-dimethyl-1-pentene	3.48	0	0	0	0
00693-89-0	1-methylcyclopentene	7.66	0	0	0	0
00071-43-2	benzene	0.42	947	750	907	909
03404-61-3	3-methyl-1-hexene	3.48	0	0	0	0
00562-49-2	3,3-dimethylpentane	0.71	0	0	0	0
00625-65-0	2,4-dimethyl-2-pentene	5.53	31	29	35	35
00110-82-7	cyclohexane	1.28	49	44	56	56
00692-24-0	2-methyl-trans-3-hexene	5.53	0	0	0	0
03683-22-5	4-methyl-trans-2-hexene	5.53	28	23	28	26
00591-76-4	2-methylhexane	1.08	0	0	0	0
00565-59-3	2,3-dimethylpentane	1.51	2410	2160	2760	2790
00110-83-8	cyclohexene	5.67	25	21	27	26
00589-34-4	3-methylhexane	1.40	434	381	485	489
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	65	54	68	68
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	56	46	58	58
00617-78-7	3-ethylpentane	1.40	95	81	103	104
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0	0	0	0
00540-84-1	2,2,4-trimethylpentane	0.93	3130	2770	3550	3590
00592-76-7	1-heptene	3.48	0	0	0	0
03899-36-3	3-methyl-trans-3-hexene	5.53	0	0	0	0
14686-14-7	trans-3-heptene	5.53	121	70	55	53
00142-82-5	n-heptane	0.81	270	220	274	278
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0	0	0	0
02738-19-4	2-methyl-2-hexene	5.53	31	24	30	30
14686-13-6	trans-2-heptene	5.53	23	17	20	20
00816-79-5	3-ethyl-2-pentene	5.53	0	0	0	0
10574-36-4	3-methyl-cis-2-hexene	5.53	50	37	47	47
10574-37-5	2,3-dimethyl-2-pentene	5.53	0	0	0	0
06443-92-1	cis-2-heptene	5.53	22	16	19	19
00108-87-2	methylcyclohexane	1.85	102	83	102	104
00590-73-8	2,2-dimethylhexane	1.20	19	15	19	19
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0	0	0	0
01640-89-7	ethylcyclopentane	2.31	25	20	25	26
00592-13-2	2,5-dimethylhexane	1.63	177	144	181	183
00589-43-5	2,4-dimethylhexane	1.50	193	158	200	202
02815-58-9	1,2,4-trimethylcyclopentane	1.94	0	0	0	0
00563-16-6	3,3-dimethylhexane	1.20	0	0	0	0
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0	0	0	0
00565-75-3	2,3,4-trimethylpentane	1.60	557	441	548	553
00108-88-3	toluene	2.73	2610	1880	2140	2140
00560-21-4	2,3,3-trimethylpentane	1.20	0	0	0	0
00584-94-1	2,3-dimethylhexane	1.32	153	119	144	145
00592-27-8	2-methylheptane	0.96	74	56	67	68
00589-53-7	4-methylheptane	1.20	39	29	35	34
00583-48-2	3,4-dimethylhexane	1.20	0	0	0	0
00589-81-1	3-methylheptane	0.99	111	82	98	98
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0	0	0	0
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0	0	0	0
03522-94-9	2,2,5-trimethylhexane	0.97	79	58	79	79
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0	0	0	0
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0	0	0	0
00111-66-0	1-octene	2.69	0	0	0	0
16747-26-5	2,2,4-trimethylhexane	1.14	0	0	0	0
14850-23-8	trans-4-octene	5.29	0	0	0	0
00111-65-9	n-octane	0.61	42	28	32	32
13389-42-9	trans-2-octene	5.29	0	0	0	0
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0	0	0	0
16747-30-1	2,4,4-trimethylhexane	1.14	0	0	0	0
07642-04-8	cis-2-octene	5.29	0	0	0	0
01069-53-0	2,3,5-trimethylhexane	1.14	0	0	0	0
02213-23-2	2,4-dimethylheptane	1.34	0	0	0	0
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0	0	0	0
01072-05-5	2,6-dimethylheptane	1.14	0	0	0	0
01678-91-7	ethylcyclohexane	1.94	0	0	0	0
00926-82-9	3,5-dimethylheptane	1.14	0	0	0	0
00100-41-4	ethylbenzene	2.70	230	149	143	142
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0	0	0	0
03074-71-3	2,3-dimethylheptane	1.14	0	0	0	0

00108-38-3	m- & p-xylene	7.64	496	321	298	295
02216-34-4	4-methyloctane	1.14	0	0	0	0
03221-61-2	2-methyloctane	1.14	0	0	0	0
02216-33-3	3-methyloctane	1.14	0	0	0	0
00100-42-5	styrene	2.22	0	0	0	0
00095-47-6	o-xylene	6.46	141	90	80	82
14720-74-2	2,2,4-trimethylheptane	1.01	16	0	0	0
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0	0	0	0
02091-95-6	2,2,5-trimethylheptane	1.01	22	0	0	0
00124-11-8	1-nonene	2.23	0	0	0	0
00111-84-2	n-nonane	0.54	16	0	0	0
04110-44-5	3,3-dimethyloctane	1.01	0	0	0	0
00098-82-8	(1-methylethyl)benzene	2.24	0	0	0	0
07146-60-3	2,3-dimethyloctane	1.01	0	0	0	0
15869-87-1	2,2-dimethyloctane	1.01	0	0	0	0
15869-89-3	2,5-dimethyloctane	1.01	0	0	0	0
04032-94-4	2,4-dimethyloctane	1.01	0	0	0	0
02051-30-1	2,6-dimethyloctane	1.01	0	0	0	0
00103-65-1	n-propylbenzene	2.12	20	0	0	0
00620-14-4	1-methyl-3-ethylbenzene	7.20	51	29	23	23
00622-96-8	1-methyl-4-ethylbenzene	7.20	25	0	0	0
00108-67-8	1,3,5-trimethylbenzene	10.12	342	370	375	360
00871-83-0	2-methylnonane	1.01	0	0	0	0
00611-14-3	1-methyl-2-ethylbenzene	7.20	19	0	0	0
00095-63-6	1,2,4-trimethylbenzene	8.83	57	30	25	26
00538-93-2	(2-methylpropyl)benzene	1.87	0	0	0	0
00135-98-8	(1-methylpropyl)benzene	1.89	0	0	0	0
00124-18-5	n-decane	0.47	0	0	0	0
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0	0	0	0
00526-73-8	1,2,3-trimethylbenzene	8.85	0	0	0	0
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0	0	0	0
00496-11-7	2,3-dihydroindene (indan)	1.06	0	0	0	0
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0	0	0	0
00141-93-5	1,3-diethylbenzene	6.45	0	0	0	0
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0	0	0	0
00105-05-5	1,4-diethylbenzene	6.45	0	0	0	0
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0	0	0	0
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0	0	0	0
00135-01-3	1,2-diethylbenzene	6.45	0	0	0	0
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0	0	0	0
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0	0	0	0
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0	0	0	0
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0	0	0	0
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0	0	0	0
01120-21-4	n-undecane (hendecane)	0.42	0	0	0	0
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0	0	0	0
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0	0	0	0
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0	0	0	0
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0	0	0	0
00874-35-1	5-methylindan	1.06	0	0	0	0
00824-22-6	4-methylindan	1.06	0	0	0	0
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0	0	0	0
00824-63-5	2-methylindan	1.06	0	0	0	0
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0	0	0	0
00538-68-1	n-pentylbenzene	1.70	0	0	0	0
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0	0	0	0
00091-20-3	naphthalene	1.18	0	0	0	0
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0	0	0	0
17171-72-1	1,3-di-n-propylbenzene	5.34	0	0	0	0
00112-40-3	n-dodecane	0.38	0	0	0	0
MR-ST	Mid-Range Subtotal		39209.00	34993.00	43796.00	44294.00
NMHC-ST	NMHC Subtotal		92590.00	86439.00	108981.00	110449.00

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	MIR	TR-PH2-1 UG/M3	TR-PH2-2 UG/M3	TR-PH2-3 UG/M3	TR-PH2-4 UG/M3
00074-84-0	ethane	0.25	0.00	0.00	0.00	0.00
00074-85-1	ethene	7.29	0.00	0.00	0.00	0.00
00074-98-6	propane	0.48	80.06	75.17	128.34	110.01
00115-07-1	propene	9.4	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	1.21	374.58	365.52	462.19	468.83
00074-86-2	ethyne	0.5	0.00	0.00	0.00	0.00
00106-97-8	n-butane	1.02	11539.55	11177.05	14077.04	14318.71
00463-49-0	1,2-propadiene	10.89	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	9.94	23.91	23.33	29.16	29.16
00106-98-9	1-butene	8.91	10.50	10.50	12.83	12.83
00115-11-7	2-methylpropene	5.31	16.91	15.16	15.16	15.16
00590-18-1	cis-2-butene	9.94	20.41	19.25	24.49	25.08
00463-82-1	2,2-dimethylpropane	0.37	86.40	84.00	105.60	107.40
00078-78-4	2-methylbutane	1.38	16799.28	16199.30	20579.11	20879.10
00074-99-7	1-propyne	4.1	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	10.89	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	10.89	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	8.8	717.35	670.69	851.49	863.15
00513-35-9	2-methyl-2-butene	6.41	1020.62	962.30	1218.91	1236.41
00109-67-1	1-pentene	6.22	318.43	298.60	376.75	381.42
00563-46-2	2-methyl-1-butene	4.9	629.87	600.71	764.01	775.67
00627-20-3	cis-2-pentene	8.8	383.17	361.01	459.57	463.65
00689-97-4	1-buten-3-yne	9.24	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	9.24	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	9.24	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	7.66	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal		32021.04	30862.59	39104.66	39686.58

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	MIR	TR-PH2-1 UG/M3	TR-PH2-2 UG/M3	TR-PH2-3 UG/M3	TR-PH2-4 UG/M3
00460-12-8	1,3-butadiyne	9.24	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	6.22	71.15	70.57	90.40	90.98
00109-66-0	n-pentane	1.04	1889.92	1847.92	2363.90	2393.90
00078-79-5	2-methyl-1,3-butadiene	9.08	23.22	19.26	25.49	24.92
00558-37-2	3,3-dimethyl-1-butene	4.42	0.00	0.00	8.75	8.75
02004-70-8	trans-1,3-pentadiene	9.08	15.29	12.46	16.43	16.43
00075-83-2	2,2-dimethylbutane	0.82	429.37	421.61	543.43	549.41
00142-29-0	cyclopentene	7.66	90.63	84.40	106.49	108.19
00691-37-2	4-methyl-1-pentene	4.42	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	4.42	56.73	54.34	68.68	69.87
00287-92-3	cyclopentane	2.38	57.74	54.82	69.99	70.57
00079-29-8	2,3-dimethylbutane	1.07	1039.09	1003.26	1289.91	1307.82
00563-78-0	2,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.00
01634-04-4	methyl-tert-butyl-ether	0.62	8209.79	7476.77	9382.62	9529.22
00691-38-3	4-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	1.53	2066.24	1982.64	2532.04	2561.90
00674-76-0	4-methyl-trans-2-pentene	6.69	76.98	59.49	72.90	72.90
00096-14-0	3-methylpentane	1.52	937.57	889.80	1140.61	1158.53
00592-41-6	1-hexene	4.42	38.49	35.58	44.91	45.49
00763-29-1	2-methyl-1-pentene	4.42	82.23	75.82	95.65	96.81
00110-54-3	n-hexane	0.98	379.81	355.32	454.45	460.43
13269-52-8	trans-3-hexene	6.69	62.40	57.15	72.32	73.48
07642-09-3	cis-3-hexene	6.69	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	6.69	120.72	110.23	138.80	140.55
00625-27-4	2-methyl-2-pentene	6.69	100.31	93.31	117.23	118.97
00616-12-6	3-methyl-trans-2-pentene	6.69	0.00	0.00	0.00	0.00
01120-62-3	3-methylcyclopentene	5.65	74.57	69.45	87.66	88.80
07688-21-3	cis-2-hexene	6.69	47.82	43.74	55.41	55.99
00922-62-3	3-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	1.40	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	2.82	215.20	197.71	253.11	256.03
00108-08-7	2,4-dimethylpentane	1.78	821.35	767.79	988.01	999.91

00464-06-2	2,2,3-trimethylbutane	1.32	0.00	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	7.66	0.00	0.00	0.00	0.00
00071-43-2	benzene	0.42	512.61	405.98	490.96	492.04
03404-61-3	3-methyl-1-hexene	3.48	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.71	0.00	0.00	0.00	0.00
00625-65-0	2,4-dimethyl-2-pentene	5.53	18.08	16.91	20.41	20.41
00110-82-7	cyclohexane	1.28	28.58	25.66	32.66	32.66
00692-24-0	2-methyl-trans-3-hexene	5.53	0.00	0.00	0.00	0.00
03683-22-5	4-methyl-trans-2-hexene	5.53	16.33	13.41	16.33	15.16
00591-76-4	2-methylhexane	1.08	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	1.51	1434.39	1285.60	1642.71	1660.56
00110-83-8	cyclohexene	5.67	14.23	11.95	15.37	14.80
00589-34-4	3-methylhexane	1.40	258.31	226.77	288.66	291.05
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	37.91	31.49	39.66	39.66
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	32.66	26.83	33.83	33.83
00617-78-7	3-ethylpentane	1.40	56.54	48.21	61.30	61.90
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	0.93	1858.24	1644.52	2107.59	2131.34
00592-76-7	1-heptene	3.48	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	5.53	0.00	0.00	0.00	0.00
14686-14-7	trans-3-heptene	5.53	70.57	40.82	32.08	30.91
00142-82-5	n-heptane	0.81	160.70	130.94	163.08	165.46
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0.00	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	5.53	18.08	14.00	17.50	17.50
14686-13-6	trans-2-heptene	5.53	13.41	9.91	11.66	11.66
00816-79-5	3-ethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	5.53	29.16	21.58	27.41	27.41
10574-37-5	2,3-dimethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
06443-92-1	cis-2-heptene	5.53	12.83	9.33	11.08	11.08
00108-87-2	methylcyclohexane	1.85	59.49	48.41	59.49	60.65
00590-73-8	2,2-dimethylhexane	1.20	11.28	8.91	11.28	11.28
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	2.31	14.58	11.66	14.58	15.16
00592-13-2	2,5-dimethylhexane	1.63	105.08	85.49	107.46	108.64
00589-43-5	2,4-dimethylhexane	1.50	114.58	93.80	118.74	119.92
02815-58-9	1,2,4-trimethylcyclopentane	1.94	0.00	0.00	0.00	0.00
00563-16-6	3,3-dimethylhexane	1.20	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0.00	0.00	0.00	0.00
00565-75-3	2,3,4-trimethylpentane	1.60	330.68	261.82	325.34	328.31
00108-88-3	toluene	2.73	1428.42	1028.90	1171.20	1171.20
00560-21-4	2,3,3-trimethylpentane	1.20	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	1.32	90.83	70.65	85.49	86.08
00592-27-8	2-methylheptane	0.96	43.93	33.25	39.78	40.37
00589-53-7	4-methylheptane	1.20	23.15	17.22	20.78	20.19
00583-48-2	3,4-dimethylhexane	1.20	0.00	0.00	0.00	0.00
00589-81-1	3-methylheptane	0.99	65.90	48.68	58.18	58.18
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
03522-94-9	2,2,5-trimethylhexane	0.97	46.81	34.37	46.81	46.81
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
00111-66-0	1-octene	2.69	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
14850-23-8	trans-4-octene	5.29	0.00	0.00	0.00	0.00
00111-65-9	n-octane	0.61	24.93	16.62	19.00	19.00
13389-42-9	trans-2-octene	5.29	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
16747-30-1	2,4,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	5.29	0.00	0.00	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	1.14	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	1.34	0.00	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	1.14	0.00	0.00	0.00	0.00
01678-91-7	ethylcyclohexane	1.94	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	1.14	0.00	0.00	0.00	0.00
00100-41-4	ethylbenzene	2.70	126.91	82.22	78.90	78.35
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	1.14	0.00	0.00	0.00	0.00

00108-38-3	m- & p-xylene	7.64	273.68	177.12	164.43	162.77
02216-34-4	4-methyloctane	1.14	0.00	0.00	0.00	0.00
03221-61-2	2-methyloctane	1.14	0.00	0.00	0.00	0.00
02216-33-3	3-methyloctane	1.14	0.00	0.00	0.00	0.00
00100-42-5	styrene	2.22	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	6.46	77.80	49.66	44.14	45.25
14720-74-2	2,2,4-trimethylheptane	1.01	10.00	0.00	0.00	0.00
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0.00	0.00	0.00	0.00
02091-95-6	2,2,5-trimethylheptane	1.01	13.02	0.00	0.00	0.00
00124-11-8	1-nonene	2.23	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	0.54	9.50	0.00	0.00	0.00
04110-44-5	3,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	2.24	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	1.01	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	1.01	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	2.12	11.11	0.00	0.00	0.00
00620-14-4	1-methyl-3-ethylbenzene	7.20	28.32	16.10	12.77	12.77
00622-96-8	1-methyl-4-ethylbenzene	7.20	13.88	0.00	0.00	0.00
00108-67-8	1,3,5-trimethylbenzene	10.12	189.90	205.45	208.23	199.90
00579-83-0	2-methylnonane	1.01	0.00	0.00	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	7.20	10.55	0.00	0.00	0.00
00095-63-6	1,2,4-trimethylbenzene	8.83	31.65	16.66	13.88	14.44
00538-93-2	(2-methylpropyl)benzene	1.87	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	1.89	0.00	0.00	0.00	0.00
00124-18-5	n-decane	0.47	0.00	0.00	0.00	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	8.85	0.00	0.00	0.00	0.00
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.06	0.00	0.00	0.00	0.00
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00105-05-5	1,4-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00135-01-3	1,2-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.42	0.00	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	1.06	0.00	0.00	0.00	0.00
00824-22-6	4-methylindan	1.06	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0.00	0.00	0.00	0.00
00824-63-5	2-methylindan	1.06	0.00	0.00	0.00	0.00
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00538-68-1	n-pentylbenzene	1.70	0.00	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0.00	0.00	0.00	0.00
00091-20-3	naphthalene	1.18	0.00	0.00	0.00	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	5.34	0.00	0.00	0.00	0.00
00112-40-3	n-dodecane	0.38	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal		24635.32	22054.34	27631.95	27956.58
NMHC-ST	NMHC Subtotal		56656.36	52916.92	66736.61	67643.16

LIGHT END HYDROCARBONS (MLD METHOD #)		MIR	TR-PH2-1	TR-PH2-2	TR-PH2-3	TR-PH2-4
CAS #	COMPOUND		WT%	WT%	WT%	WT%
00074-84-0	ethane	0.25	0.00	0.00	0.00	0.00
00074-85-1	ethene	7.29	0.00	0.00	0.00	0.00
00074-98-6	propane	0.48	0.14	0.14	0.19	0.16
00115-07-1	propene	9.4	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	1.21	0.66	0.69	0.69	0.69
00074-86-2	ethyne	0.5	0.00	0.00	0.00	0.00
00106-97-8	n-butane	1.02	20.37	21.12	21.09	21.17
00463-49-0	1,2-propadiene	10.89	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	9.94	0.04	0.04	0.04	0.04
00106-98-9	1-butene	8.91	0.02	0.02	0.02	0.02
00115-11-7	2-methylpropene	5.31	0.03	0.03	0.02	0.02
00590-18-1	cis-2-butene	9.94	0.04	0.04	0.04	0.04
00463-82-1	2,2-dimethylpropane	0.37	0.15	0.16	0.16	0.16
00078-78-4	2-methylbutane	1.38	29.65	30.61	30.84	30.87
00074-99-7	1-propyne	4.1	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	10.89	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	10.89	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	8.8	1.27	1.27	1.28	1.28
00513-35-9	2-methyl-2-butene	6.41	1.80	1.82	1.83	1.83
00109-67-1	1-pentene	6.22	0.56	0.56	0.56	0.56
00563-46-2	2-methyl-1-butene	4.9	1.11	1.14	1.14	1.15
00627-20-3	cis-2-pentene	8.8	0.68	0.68	0.69	0.69
00689-97-4	1-buten-3-yne	9.24	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	9.24	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	9.24	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	7.66	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal		56.52	58.32	58.60	58.67

MID-RANGE HYDROCARBONS (METHOD #1003)		MIR	TR-PH2-1	TR-PH2-2	TR-PH2-3	TR-PH2-4
CAS #	COMPOUND		WT%	WT%	WT%	WT%
00460-12-8	1,3-butadiyne	9.24	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	6.22	0.13	0.13	0.14	0.13
00109-66-0	n-pentane	1.04	3.34	3.49	3.54	3.54
00078-79-5	2-methyl-1,3-butadiene	9.08	0.04	0.04	0.04	0.04
00558-37-2	3,3-dimethyl-1-butene	4.42	0.00	0.00	0.01	0.01
02004-70-8	trans-1,3-pentadiene	9.08	0.03	0.02	0.02	0.02
00075-83-2	2,2-dimethylbutane	0.82	0.76	0.80	0.81	0.81
00142-29-0	cyclopentene	7.66	0.16	0.16	0.16	0.16
00691-37-2	4-methyl-1-pentene	4.42	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	4.42	0.10	0.10	0.10	0.10
00287-92-3	cyclopentane	2.38	0.10	0.10	0.10	0.10
00079-29-8	2,3-dimethylbutane	1.07	1.83	1.90	1.93	1.93
00563-78-0	2,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.00
01634-04-4	methyl-tert-butyl-ether	0.62	14.49	14.13	14.06	14.09
00691-38-3	4-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	1.53	3.65	3.75	3.79	3.79
00674-76-0	4-methyl-trans-2-pentene	6.69	0.14	0.11	0.11	0.11
00096-14-0	3-methylpentane	1.52	1.65	1.68	1.71	1.71
00592-41-6	1-hexene	4.42	0.07	0.07	0.07	0.07
00763-29-1	2-methyl-1-pentene	4.42	0.15	0.14	0.14	0.14
00110-54-3	n-hexane	0.98	0.67	0.67	0.68	0.68
13269-52-8	trans-3-hexene	6.69	0.11	0.11	0.11	0.11
07642-09-3	cis-3-hexene	6.69	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	6.69	0.21	0.21	0.21	0.21
00625-27-4	2-methyl-2-pentene	6.69	0.18	0.18	0.18	0.18
00616-12-6	3-methyl-trans-2-pentene	6.69	0.00	0.00	0.00	0.00
01120-62-3	3-methylcyclopentene	5.65	0.13	0.13	0.13	0.13
07688-21-3	cis-2-hexene	6.69	0.08	0.08	0.08	0.08
00922-62-3	3-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	1.40	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	2.82	0.38	0.37	0.38	0.38
00108-08-7	2,4-dimethylpentane	1.78	1.45	1.45	1.48	1.48

00464-06-2	2,2,3-trimethylbutane	1.32	0.00	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	7.66	0.00	0.00	0.00	0.00
00071-43-2	benzene	0.42	0.90	0.77	0.74	0.73
03404-61-3	3-methyl-1-hexene	3.48	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.71	0.00	0.00	0.00	0.00
00625-65-0	2,4-dimethyl-2-pentene	5.53	0.03	0.03	0.03	0.03
00110-82-7	cyclohexane	1.28	0.05	0.05	0.05	0.05
00692-24-0	2-methyl-trans-3-hexene	5.53	0.00	0.00	0.00	0.00
03683-22-5	4-methyl-trans-2-hexene	5.53	0.03	0.03	0.02	0.02
00591-76-4	2-methylhexane	1.08	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	1.51	2.53	2.43	2.46	2.45
00110-83-8	cyclohexene	5.67	0.03	0.02	0.02	0.02
00589-34-4	3-methylhexane	1.40	0.46	0.43	0.43	0.43
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	0.07	0.06	0.06	0.06
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	0.06	0.05	0.05	0.05
00617-78-7	3-ethylpentane	1.40	0.10	0.09	0.09	0.09
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	0.93	3.28	3.11	3.16	3.15
00592-76-7	1-heptene	3.48	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	5.53	0.00	0.00	0.00	0.00
14686-14-7	trans-3-heptene	5.53	0.12	0.08	0.05	0.05
00142-82-5	n-heptane	0.81	0.28	0.25	0.24	0.24
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0.00	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	5.53	0.03	0.03	0.03	0.03
14686-13-6	trans-2-heptene	5.53	0.02	0.02	0.02	0.02
00816-79-5	3-ethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	5.53	0.05	0.04	0.04	0.04
10574-37-5	2,3-dimethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
06443-92-1	cis-2-heptene	5.53	0.02	0.02	0.02	0.02
00108-87-2	methylcyclohexane	1.85	0.10	0.09	0.09	0.09
00590-73-8	2,2-dimethylhexane	1.20	0.02	0.02	0.02	0.02
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	2.31	0.03	0.02	0.02	0.02
00592-13-2	2,5-dimethylhexane	1.63	0.19	0.16	0.16	0.16
00589-43-5	2,4-dimethylhexane	1.50	0.20	0.18	0.18	0.18
02815-58-9	1,2,4-trimethylcyclopentane	1.94	0.00	0.00	0.00	0.00
00563-16-6	3,3-dimethylhexane	1.20	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0.00	0.00	0.00	0.00
00565-75-3	2,3,4-trimethylpentane	1.60	0.58	0.49	0.49	0.49
00108-88-3	toluene	2.73	2.52	1.94	1.75	1.73
00560-21-4	2,3,3-trimethylpentane	1.20	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	1.32	0.16	0.13	0.13	0.13
00592-27-8	2-methylheptane	0.96	0.08	0.06	0.06	0.06
00589-53-7	4-methylheptane	1.20	0.04	0.03	0.03	0.03
00583-48-2	3,4-dimethylhexane	1.20	0.00	0.00	0.00	0.00
00589-81-1	3-methylheptane	0.99	0.12	0.09	0.09	0.09
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
03522-94-9	2,2,5-trimethylhexane	0.97	0.08	0.06	0.07	0.07
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
00111-66-0	1-octene	2.69	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
14850-23-8	trans-4-octene	5.29	0.00	0.00	0.00	0.00
00111-65-9	n-octane	0.61	0.04	0.03	0.03	0.03
13389-42-9	trans-2-octene	5.29	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
16747-30-1	2,4,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	5.29	0.00	0.00	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	1.14	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	1.34	0.00	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	1.14	0.00	0.00	0.00	0.00
01678-91-7	ethylcyclohexane	1.94	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	1.14	0.00	0.00	0.00	0.00
00100-41-4	ethylbenzene	2.70	0.22	0.16	0.12	0.12
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	1.14	0.00	0.00	0.00	0.00

00108-38-3	m- & p-xylene	7.64	0.48	0.33	0.25	0.24
02216-34-4	4-methyloctane	1.14	0.00	0.00	0.00	0.00
03221-61-2	2-methyloctane	1.14	0.00	0.00	0.00	0.00
02216-33-3	3-methyloctane	1.14	0.00	0.00	0.00	0.00
00100-42-5	styrene	2.22	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	6.46	0.14	0.09	0.07	0.07
14720-74-2	2,2,4-trimethylheptane	1.01	0.02	0.00	0.00	0.00
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0.00	0.00	0.00	0.00
02091-95-6	2,2,5-trimethylheptane	1.01	0.02	0.00	0.00	0.00
00124-11-8	1-nonene	2.23	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	0.54	0.02	0.00	0.00	0.00
04110-44-5	3,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	2.24	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	1.01	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	1.01	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	2.12	0.02	0.00	0.00	0.00
00620-14-4	1-methyl-3-ethylbenzene	7.20	0.05	0.03	0.02	0.02
00622-96-8	1-methyl-4-ethylbenzene	7.20	0.02	0.00	0.00	0.00
00108-67-8	1,3,5-trimethylbenzene	10.12	0.34	0.39	0.31	0.30
00871-83-0	2-methylnonane	1.01	0.00	0.00	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	7.20	0.02	0.00	0.00	0.00
00095-63-6	1,2,4-trimethylbenzene	8.83	0.06	0.03	0.02	0.02
00538-93-2	(2-methylpropyl)benzene	1.87	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	1.89	0.00	0.00	0.00	0.00
00124-18-5	n-decane	0.47	0.00	0.00	0.00	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	8.85	0.00	0.00	0.00	0.00
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.06	0.00	0.00	0.00	0.00
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00105-05-5	1,4-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00135-01-3	1,2-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.42	0.00	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	1.06	0.00	0.00	0.00	0.00
00824-22-6	4-methylindan	1.06	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0.00	0.00	0.00	0.00
00824-63-5	2-methylindan	1.06	0.00	0.00	0.00	0.00
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00538-68-1	n-pentylbenzene	1.70	0.00	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0.00	0.00	0.00	0.00
00091-20-3	naphthalene	1.18	0.00	0.00	0.00	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	5.34	0.00	0.00	0.00	0.00
00112-40-3	n-dodecane	0.38	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal		43.48	41.68	41.40	41.33
NMHC-ST	NMHC Subtotal		100.00	100.00	100.00	100.00

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	MIR	T10-PH2-1 PPBC	T10-PH2-2 PPBC	T10-PH2-3 PPBC	T10-PH2-4 PPBC
00074-84-0	ethane	0.25	0	0	0	0
00074-85-1	ethene	7.29	0	0	0	0
00074-98-6	propane	0.48	135	136	152	150
00115-07-1	propene	9.4	0	0	0	0
00075-28-5	methylpropane	1.21	717	722	599	636
00074-86-2	ethyne	0.5	0	0	0	0
00106-97-8	n-butane	1.02	19100	19100	15300	16400
00463-49-0	1,2-propadiene	10.89	0	0	0	0
00624-64-6	trans-2-butene	9.94	36	35	28	30
00106-98-9	1-butene	8.91	17	18	0	15
00115-11-7	2-methylpropene	5.31	28	24	17	18
00590-18-1	cis-2-butene	9.94	31	30	24	26
00463-82-1	2,2-dimethylpropane	0.37	174	175	144	154
00078-78-4	2-methylbutane	1.38	27200	27300	21700	23500
00074-99-7	1-propyne	4.1	0	0	0	0
00590-19-2	1,2-butadiene	10.89	0	0	0	0
00106-99-0	1,3-butadiene	10.89	0	0	0	0
00646-04-8	trans-2-pentene	8.8	900	901	696	761
00513-35-9	2-methyl-2-butene	6.41	1320	1330	1030	1120
00109-67-1	1-pentene	6.22	443	437	342	370
00563-46-2	2-methyl-1-butene	4.9	903	908	715	776
00627-20-3	cis-2-pentene	8.8	485	492	381	415
00689-97-4	1-buten-3-yne	9.24	0	0	0	0
00503-17-3	2-butyne	9.24	0	0	0	0
00107-00-6	1-butyne	9.24	0	0	0	0
00542-92-7	1,3-cyclopentadiene	7.66	0	0	0	0
LE-ST	Light End Subtotal		51489.00	51608.00	41128.00	44371.00

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	MIR	PHASE 1 T10-PH2-1 PPBC	T10-PH2-2 PPBC	T10-PH2-3 PPBC	T10-PH2-4 PPBC
00460-12-8	1,3-butadiyne	9.24	0	0	0	0
00563-45-1	3-methyl-1-butene	6.22	125	126	99	107
00109-66-0	n-pentane	1.04	2660	2670	2060	2250
00078-79-5	2-methyl-1,3-butadiene	9.08	26	27	20	22
00558-37-2	3,3-dimethyl-1-butene	4.42	0	0	0	0
02004-70-8	trans-1,3-pentadiene	9.08	15	15	0	0
00075-83-2	2,2-dimethylbutane	0.82	733	741	597	652
00142-29-0	cyclopentene	7.66	107	108	84	92
00691-37-2	4-methyl-1-pentene	4.42	0	0	0	0
00760-20-3	3-methyl-1-pentene	4.42	81	81	66	72
00287-92-3	cyclopentane	2.38	74	75	60	65
00079-29-8	2,3-dimethylbutane	1.07	1600	1630	1320	1450
00563-78-0	2,3-dimethyl-1-butene	4.42	0	0	0	0
01634-04-4	methyl-tert-butyl-ether	0.62	8730	8870	7250	7960
00691-38-3	4-methyl-cis-2-pentene	6.69	0	0	0	0
00107-83-5	2-methylpentane	1.53	2960	3010	2450	2690
00674-76-0	4-methyl-trans-2-pentene	6.69	98	98	85	88
00096-14-0	3-methylpentane	1.52	1320	1340	1100	1210
00592-41-6	1-hexene	4.42	46	47	38	42
00763-29-1	2-methyl-1-pentene	4.42	104	107	86	96
00110-54-3	n-hexane	0.98	470	482	397	442
13269-52-8	trans-3-hexene	6.69	73	75	61	69
07642-09-3	cis-3-hexene	6.69	0	0	0	0
04050-45-7	trans-2-hexene	6.69	140	143	118	132
00625-27-4	2-methyl-2-pentene	6.69	122	125	103	115
00616-12-6	3-methyl-trans-2-pentene	6.69	0	0	0	0
01120-62-3	3-methylcyclopentene	5.65	99	100	82	92
07688-21-3	cis-2-hexene	6.69	58	58	48	54
00922-62-3	3-methyl-cis-2-pentene	6.69	0	0	0	0
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0	0	0	0
00590-35-2	2,2-dimethylpentane	1.40	0	0	0	0
00096-37-7	methylcyclopentane	2.82	278	286	240	269
00108-08-7	2,4-dimethylpentane	1.78	1230	1270	1090	1230

00464-06-2	2,2,3-trimethylbutane	1.32	0	0	0	0
07385-78-6	3,4-dimethyl-1-pentene	3.48	0	0	0	0
02213-32-3	2,4-dimethyl-1-pentene	3.48	0	0	0	0
00693-89-0	1-methylcyclopentene	7.66	0	0	0	0
00071-43-2	benzene	0.42	452	464	402	455
03404-61-3	3-methyl-1-hexene	3.48	0	0	0	0
00562-49-2	3,3-dimethylpentane	0.71	0	0	0	0
00625-65-0	2,4-dimethyl-2-pentene	5.53	28	32	26	31
00110-82-7	cyclohexane	1.28	36	41	33	40
00692-24-0	2-methyl-trans-3-hexene	5.53	0	0	0	0
03683-22-5	4-methyl-trans-2-hexene	5.53	19	28	16	26
00591-76-4	2-methylhexane	1.08	0	0	0	0
00565-59-3	2,3-dimethylpentane	1.51	2120	2220	1950	2250
00110-83-8	cyclohexene	5.67	15	21	0	20
00589-34-4	3-methylhexane	1.40	363	391	339	400
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	47	55	45	56
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	41	49	39	50
00617-78-7	3-ethylpentane	1.40	77	86	73	88
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0	0	0	0
00540-84-1	2,2,4-trimethylpentane	0.93	3190	3370	3010	3510
00592-76-7	1-heptene	3.48	0	0	0	0
03899-36-3	3-methyl-trans-3-hexene	5.53	0	0	0	0
14686-14-7	trans-3-heptene	5.53	30	18	31	39
00142-82-5	n-heptane	0.81	201	220	200	239
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0	0	0	0
02738-19-4	2-methyl-2-hexene	5.53	21	23	21	25
14686-13-6	trans-2-heptene	5.53	0	17	0	18
00816-79-5	3-ethyl-2-pentene	5.53	0	0	0	0
10574-36-4	3-methyl-cis-2-hexene	5.53	35	41	34	44
10574-37-5	2,3-dimethyl-2-pentene	5.53	0	0	0	0
06443-92-1	cis-2-heptene	5.53	0	17	0	18
00108-87-2	methylcyclohexane	1.85	79	87	78	94
00590-73-8	2,2-dimethylhexane	1.20	18	20	17	21
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0	0	0	0
01640-89-7	ethylcyclopentane	2.31	19	21	20	23
00592-13-2	2,5-dimethylhexane	1.63	170	183	171	206
00589-43-5	2,4-dimethylhexane	1.50	189	203	190	227
02815-58-9	1,2,4-trimethylcyclopentane	1.94	0	0	0	15
00563-16-6	3,3-dimethylhexane	1.20	0	0	0	0
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0	0	0	0
00565-75-3	2,3,4-trimethylpentane	1.60	552	592	552	670
00108-88-3	toluene	2.73	1570	1660	1660	2000
00560-21-4	2,3,3-trimethylpentane	1.20	0	0	0	0
00584-94-1	2,3-dimethylhexane	1.32	146	156	150	181
00592-27-8	2-methylheptane	0.96	68	74	74	89
00589-53-7	4-methylheptane	1.20	36	38	38	46
00583-48-2	3,4-dimethylhexane	1.20	0	0	0	0
00589-81-1	3-methylheptane	0.99	103	111	110	133
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0	0	0	0
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0	0	0	0
03522-94-9	2,2,5-trimethylhexane	0.97	94	102	100	124
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0	0	0	0
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0	0	0	0
00111-66-0	1-octene	2.69	0	0	0	0
16747-26-5	2,2,4-trimethylhexane	1.14	0	0	0	0
14850-23-8	trans-4-octene	5.29	0	0	0	0
00111-65-9	n-octane	0.61	36	40	42	51
13389-42-9	trans-2-octene	5.29	0	0	0	0
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0	0	0	0
16747-30-1	2,4,4-trimethylhexane	1.14	0	0	0	0
07642-04-8	cis-2-octene	5.29	0	0	0	0
01069-53-0	2,3,5-trimethylhexane	1.14	0	0	0	0
02213-23-2	2,4-dimethylheptane	1.34	0	0	0	0
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0	0	0	0
01072-05-5	2,6-dimethylheptane	1.14	0	0	0	15
01678-91-7	ethylcyclohexane	1.94	0	0	0	0
00926-82-9	3,5-dimethylheptane	1.14	0	0	0	19
00100-41-4	ethylbenzene	2.70	165	173	196	243
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0	0	0	0
03074-71-3	2,3-dimethylheptane	1.14	0	0	0	0

00108-38-3	m- & p-xylene	7.64	392	408	453	575
02216-34-4	4-methyloctane	1.14	0	0	0	18
03221-61-2	2-methyloctane	1.14	0	0	0	0
02216-33-3	3-methyloctane	1.14	0	0	0	16
00100-42-5	styrene	2.22	0	0	0	0
00095-47-6	o-xylene	6.46	127	130	140	181
14720-74-2	2,2,4-trimethylheptane	1.01	17	17	19	22
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0	0	0	0
02091-95-6	2,2,5-trimethylheptane	1.01	25	25	25	35
00124-11-8	1-nonene	2.23	0	0	0	0
00111-84-2	n-nonane	0.54	15	17	18	23
04110-44-5	3,3-dimethyloctane	1.01	0	0	0	0
00098-82-8	(1-methylethyl)benzene	2.24	0	0	0	0
07146-60-3	2,3-dimethyloctane	1.01	0	0	0	0
15869-87-1	2,2-dimethyloctane	1.01	0	0	0	0
15869-89-3	2,5-dimethyloctane	1.01	0	0	0	0
04032-94-4	2,4-dimethyloctane	1.01	0	0	0	0
02051-30-1	2,6-dimethyloctane	1.01	0	0	0	0
00103-65-1	n-propylbenzene	2.12	23	23	21	30
00620-14-4	1-methyl-3-ethylbenzene	7.20	70	69	64	86
00622-96-8	1-methyl-4-ethylbenzene	7.20	34	34	30	40
00108-67-8	1,3,5-trimethylbenzene	10.12	226	380	249	354
00871-83-0	2-methylnonane	1.01	0	0	0	0
00611-14-3	1-methyl-2-ethylbenzene	7.20	27	27	20	28
00095-63-6	1,2,4-trimethylbenzene	8.83	106	107	84	114
00538-93-2	(2-methylpropyl)benzene	1.87	0	0	0	0
00135-98-8	(1-methylpropyl)benzene	1.89	0	0	0	0
00124-18-5	n-decane	0.47	0	0	0	0
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0	0	0	0
00526-73-8	1,2,3-trimethylbenzene	8.85	19	20	0	19
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0	0	0	0
00496-11-7	2,3-dihydroindene (indan)	1.06	0	0	0	0
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0	0	0	0
00141-93-5	1,3-diethylbenzene	6.45	0	0	0	0
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0	16	0	0
00105-05-5	1,4-diethylbenzene	6.45	0	0	0	0
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0	0	0	0
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	18	20	0	16
00135-01-3	1,2-diethylbenzene	6.45	0	0	0	0
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0	0	0	0
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0	0	0	0
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0	0	0	0
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	18	22	0	15
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0	0	0	0
01120-21-4	n-undecane (hendecane)	0.42	0	0	0	0
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0	0	0	0
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0	0	0	0
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0	19	0	0
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0	0	0	0
00874-35-1	5-methylindan	1.06	0	0	0	0
00824-22-6	4-methylindan	1.06	0	0	0	0
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0	0	0	0
00824-63-5	2-methylindan	1.06	0	0	0	0
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0	0	0	0
00538-68-1	n-pentylbenzene	1.70	0	0	0	0
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0	0	0	0
00091-20-3	naphthalene	1.18	0	0	0	0
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0	0	0	0
17171-72-1	1,3-di-n-propylbenzene	5.34	0	15	0	0
00112-40-3	n-dodecane	0.38	0	0	0	0
MR-ST	Mid-Range Subtotal		32186.00	33386.00	28194.00	32237.00
NMHC-ST	NMHC Subtotal		83675.00	84994.00	69322.00	76608.00

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	MIR	T10-PH2-1 UG/M3	T10-PH2-2 UG/M3	T10-PH2-3 UG/M3	T10-PH2-4 UG/M3
00074-84-0	ethane	0.25	0.00	0.00	0.00	0.00
00074-85-1	ethene	7.29	0.00	0.00	0.00	0.00
00074-98-6	propane	0.48	82.51	83.12	92.89	91.67
00115-07-1	propene	9.4	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	1.21	433.19	436.21	361.89	384.25
00074-86-2	ethyne	0.5	0.00	0.00	0.00	0.00
00106-97-8	n-butane	1.02	11539.55	11539.55	9243.72	9908.31
00463-49-0	1,2-propadiene	10.89	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	9.94	21.00	20.41	16.33	17.50
00106-98-9	1-butene	8.91	9.91	10.50	0.00	8.75
00115-11-7	2-methylpropene	5.31	16.33	14.00	9.91	10.50
00590-18-1	cis-2-butene	9.94	18.08	17.50	14.00	15.16
00463-82-1	2,2-dimethylpropane	0.37	104.40	105.00	86.40	92.40
00078-78-4	2-methylbutane	1.38	16319.30	16379.29	13019.44	14099.39
00074-99-7	1-propyne	4.1	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	10.89	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	10.89	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	8.8	524.89	525.47	405.91	443.82
00513-35-9	2-methyl-2-butene	6.41	769.84	775.67	600.71	653.20
00109-67-1	1-pentene	6.22	258.36	254.86	199.46	215.79
00563-46-2	2-methyl-1-butene	4.9	526.64	529.56	417.00	452.57
00627-20-3	cis-2-pentene	8.8	282.86	286.94	222.20	242.03
00689-97-4	1-buten-3-yne	9.24	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	9.24	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	9.24	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	7.66	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal		30906.84	30978.07	24689.87	26635.33

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	MIR	T10-PH2-1 UG/M3	T10-PH2-2 UG/M3	T10-PH2-3 UG/M3	T10-PH2-4 UG/M3
00460-12-8	1,3-butadiyne	9.24	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	6.22	72.90	73.48	57.74	62.40
00109-66-0	n-pentane	1.04	1595.93	1601.93	1235.95	1349.94
00078-79-5	2-methyl-1,3-butadiene	9.08	14.73	15.29	11.33	12.46
00558-37-2	3,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.00
02004-70-8	trans-1,3-pentadiene	9.08	8.50	8.50	0.00	0.00
00075-83-2	2,2-dimethylbutane	0.82	437.73	442.51	356.52	389.36
00142-29-0	cyclopentene	7.66	60.61	61.18	47.58	52.11
00691-37-2	4-methyl-1-pentene	4.42	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	4.42	48.37	48.37	39.41	43.00
00287-92-3	cyclopentane	2.38	43.16	43.74	34.99	37.91
00079-29-8	2,3-dimethylbutane	1.07	955.49	973.40	788.28	865.91
00563-78-0	2,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.00
01634-04-4	methyl-tert-butyl-ether	0.62	6399.24	6501.86	5314.37	5834.82
00691-38-3	4-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	1.53	1767.65	1797.51	1463.09	1606.41
00674-76-0	4-methyl-trans-2-pentene	6.69	57.15	57.15	49.57	51.32
00096-14-0	3-methylpentane	1.52	788.28	800.22	656.90	722.59
00592-41-6	1-hexene	4.42	26.83	27.41	22.16	24.49
00763-29-1	2-methyl-1-pentene	4.42	60.65	62.40	50.16	55.99
00110-54-3	n-hexane	0.98	280.67	287.84	237.08	263.95
13269-52-8	trans-3-hexene	6.69	42.57	43.74	35.58	40.24
07642-09-3	cis-3-hexene	6.69	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	6.69	81.65	83.40	68.82	76.98
00625-27-4	2-methyl-2-pentene	6.69	71.15	72.90	60.07	67.07
00616-12-6	3-methyl-trans-2-pentene	6.69	0.00	0.00	0.00	0.00
01120-62-3	3-methylcyclopentene	5.65	56.35	56.92	46.68	52.37
07688-21-3	cis-2-hexene	6.69	33.83	33.83	27.99	31.49
00922-62-3	3-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	1.40	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	2.82	162.13	166.80	139.97	156.88
00108-08-7	2,4-dimethylpentane	1.78	732.08	755.88	648.75	732.08

00464-06-2	2,2,3-trimethylbutane	1.32	0.00	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	7.66	0.00	0.00	0.00	0.00
00071-43-2	benzene	0.42	244.67	251.16	217.60	246.29
03404-61-3	3-methyl-1-hexene	3.48	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.71	0.00	0.00	0.00	0.00
00625-65-0	2,4-dimethyl-2-pentene	5.53	16.33	18.66	15.16	18.08
00110-82-7	cyclohexane	1.28	21.00	23.91	19.25	23.33
00692-24-0	2-methyl-trans-3-hexene	5.53	0.00	0.00	0.00	0.00
03683-22-5	4-methyl-trans-2-hexene	5.53	11.08	16.33	9.33	15.16
00591-76-4	2-methylhexane	1.08	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	1.51	1261.79	1321.31	1160.61	1339.17
00110-83-8	cyclohexene	5.67	8.54	11.95	0.00	11.38
00589-34-4	3-methylhexane	1.40	216.05	232.72	201.77	238.07
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	27.41	32.08	26.24	32.66
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	23.91	28.58	22.75	29.16
00617-78-7	3-ethylpentane	1.40	45.83	51.19	43.45	52.38
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	0.93	1893.86	2000.73	1787.00	2083.84
00592-76-7	1-heptene	3.48	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	5.53	0.00	0.00	0.00	0.00
14686-14-7	trans-3-heptene	5.53	17.50	10.50	18.08	22.75
00142-82-5	n-heptane	0.81	119.63	130.94	119.04	142.25
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0.00	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	5.53	12.25	13.41	12.25	14.58
14686-13-6	trans-2-heptene	5.53	0.00	9.91	0.00	10.50
00816-79-5	3-ethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	5.53	20.41	23.91	19.83	25.66
10574-37-5	2,3-dimethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
06443-92-1	cis-2-heptene	5.53	0.00	9.91	0.00	10.50
00108-87-2	methylcyclohexane	1.85	46.07	50.74	45.49	54.82
00590-73-8	2,2-dimethylhexane	1.20	10.69	11.87	10.09	12.47
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	2.31	11.08	12.25	11.66	13.41
00592-13-2	2,5-dimethylhexane	1.63	100.93	108.64	101.52	122.30
00589-43-5	2,4-dimethylhexane	1.50	112.21	120.52	112.80	134.77
02815-58-9	1,2,4-trimethylcyclopentane	1.94	0.00	0.00	0.00	8.75
00563-16-6	3,3-dimethylhexane	1.20	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0.00	0.00	0.00	0.00
00565-75-3	2,3,4-trimethylpentane	1.60	327.72	351.46	327.72	397.77
00108-88-3	toluene	2.73	859.24	908.50	908.50	1094.58
00560-21-4	2,3,3-trimethylpentane	1.20	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	1.32	86.68	92.62	89.05	107.46
00592-27-8	2-methylheptane	0.96	40.37	43.93	43.93	52.84
00589-53-7	4-methylheptane	1.20	21.37	22.56	22.56	27.31
00583-48-2	3,4-dimethylhexane	1.20	0.00	0.00	0.00	0.00
00589-81-1	3-methylheptane	0.99	61.15	65.90	65.31	78.96
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
03522-94-9	2,2,5-trimethylhexane	0.97	55.70	60.44	59.25	73.47
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
00111-66-0	1-octene	2.69	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
14850-23-8	trans-4-octene	5.29	0.00	0.00	0.00	0.00
00111-65-9	n-octane	0.61	21.37	23.75	24.93	30.28
13389-42-9	trans-2-octene	5.29	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
16747-30-1	2,4,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	5.29	0.00	0.00	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	1.14	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	1.34	0.00	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	1.14	0.00	0.00	0.00	8.89
01678-91-7	ethylcyclohexane	1.94	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	1.14	0.00	0.00	0.00	11.26
00100-41-4	ethylbenzene	2.70	91.04	95.46	108.15	134.08
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	1.14	0.00	0.00	0.00	0.00

00108-38-3	m- & p-xylene	7.64	216.30	225.13	249.96	317.27
02216-34-4	4-methyloctane	1.14	0.00	0.00	0.00	10.67
03221-61-2	2-methyloctane	1.14	0.00	0.00	0.00	0.00
02216-33-3	3-methyloctane	1.14	0.00	0.00	0.00	9.48
00100-42-5	styrene	2.22	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	6.46	70.08	71.73	77.25	99.87
14720-74-2	2,2,4-trimethylheptane	1.01	10.63	10.63	11.88	13.75
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0.00	0.00	0.00	0.00
02091-95-6	2,2,5-trimethylheptane	1.01	14.79	14.79	14.79	20.71
00124-11-8	1-nonene	2.23	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	0.54	8.91	10.09	10.69	13.65
04110-44-5	3,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	2.24	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	1.01	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	1.01	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	2.12	12.77	12.77	11.66	16.66
00620-14-4	1-methyl-3-ethylbenzene	7.20	38.87	38.31	35.54	47.75
00622-96-8	1-methyl-4-ethylbenzene	7.20	18.88	18.88	16.66	22.21
00108-67-8	1,3,5-trimethylbenzene	10.12	125.49	211.00	138.26	196.57
00871-83-0	2-methylnonane	1.01	0.00	0.00	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	7.20	14.99	14.99	11.11	15.55
00095-63-6	1,2,4-trimethylbenzene	8.83	58.86	59.41	46.64	63.30
00538-93-2	(2-methylpropyl)benzene	1.87	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	1.89	0.00	0.00	0.00	0.00
00124-18-5	n-decane	0.47	0.00	0.00	0.00	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	8.85	10.55	11.11	0.00	10.55
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.06	0.00	0.00	0.00	0.00
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0.00	8.93	0.00	0.00
00105-05-5	1,4-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	10.05	11.16	0.00	8.93
00135-01-3	1,2-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	10.05	12.28	0.00	8.37
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.42	0.00	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0.00	10.60	0.00	0.00
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	1.06	0.00	0.00	0.00	0.00
00824-22-6	4-methylindan	1.06	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0.00	0.00	0.00	0.00
00824-63-5	2-methylindan	1.06	0.00	0.00	0.00	0.00
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00538-68-1	n-pentylbenzene	1.70	0.00	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0.00	0.00	0.00	0.00
00091-20-3	naphthalene	1.18	0.00	0.00	0.00	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	5.34	0.00	8.43	0.00	0.00
00112-40-3	n-dodecane	0.38	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal		20204.74	20922.39	17620.74	20084.26
NMHC-ST	NMHC Subtotal		51111.58	51900.45	42310.61	46719.59

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

		MIR	T10-PH2-1 WT%	T10-PH2-2 WT%	T10-PH2-3 WT%	T10-PH2-4 WT%
00074-84-0	ethane	0.25	0.00	0.00	0.00	0.00
00074-85-1	ethene	7.29	0.00	0.00	0.00	0.00
00074-98-6	propane	0.48	0.16	0.16	0.22	0.20
00115-07-1	propene	9.4	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	1.21	0.85	0.84	0.86	0.82
00074-86-2	ethyne	0.5	0.00	0.00	0.00	0.00
00106-97-8	n-butane	1.02	22.58	22.23	21.85	21.21
00463-49-0	1,2-propadiene	10.89	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	9.94	0.04	0.04	0.04	0.04
00106-98-9	1-butene	8.91	0.02	0.02	0.00	0.02
00115-11-7	2-methylpropene	5.31	0.03	0.03	0.02	0.02
00590-18-1	cis-2-butene	9.94	0.04	0.03	0.03	0.03
00463-82-1	2,2-dimethylpropane	0.37	0.20	0.20	0.20	0.20
00078-78-4	2-methylbutane	1.38	31.93	31.56	30.77	30.18
00074-99-7	1-propyne	4.1	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	10.89	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	10.89	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	8.8	1.03	1.01	0.96	0.95
00513-35-9	2-methyl-2-butene	6.41	1.51	1.49	1.42	1.40
00109-67-1	1-pentene	6.22	0.51	0.49	0.47	0.46
00563-46-2	2-methyl-1-butene	4.9	1.03	1.02	0.99	0.97
00627-20-3	cis-2-pentene	8.8	0.55	0.55	0.53	0.52
00689-97-4	1-buten-3-yne	9.24	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	9.24	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	9.24	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	7.66	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal		60.47	59.69	58.35	57.01

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # COMPOUND

		MIR	T10-PH2-1 WT%	T10-PH2-2 WT%	T10-PH2-3 WT%	T10-PH2-4 WT%
00460-12-8	1,3-butadiyne	9.24	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	6.22	0.14	0.14	0.14	0.13
00109-66-0	n-pentane	1.04	3.12	3.09	2.92	2.89
00078-79-5	2-methyl-1,3-butadiene	9.08	0.03	0.03	0.03	0.03
00558-37-2	3,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.00
02004-70-8	trans-1,3-pentadiene	9.08	0.02	0.02	0.00	0.00
00075-83-2	2,2-dimethylbutane	0.82	0.86	0.85	0.84	0.83
00142-29-0	cyclopentene	7.66	0.12	0.12	0.11	0.11
00691-37-2	4-methyl-1-pentene	4.42	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	4.42	0.09	0.09	0.09	0.09
00287-92-3	cyclopentane	2.38	0.08	0.08	0.08	0.08
00079-29-8	2,3-dimethylbutane	1.07	1.87	1.88	1.86	1.85
00563-78-0	2,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.00
01634-04-4	methyl-tert-butyl-ether	0.62	12.52	12.53	12.56	12.49
00691-38-3	4-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	1.53	3.46	3.46	3.46	3.44
00674-76-0	4-methyl-trans-2-pentene	6.69	0.11	0.11	0.12	0.11
00096-14-0	3-methylpentane	1.52	1.54	1.54	1.55	1.55
00592-41-6	1-hexene	4.42	0.05	0.05	0.05	0.05
00763-29-1	2-methyl-1-pentene	4.42	0.12	0.12	0.12	0.12
00110-54-3	n-hexane	0.98	0.55	0.55	0.56	0.56
13269-52-8	trans-3-hexene	6.69	0.08	0.08	0.08	0.09
07642-09-3	cis-3-hexene	6.69	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	6.69	0.16	0.16	0.16	0.16
00625-27-4	2-methyl-2-pentene	6.69	0.14	0.14	0.14	0.14
00616-12-6	3-methyl-trans-2-pentene	6.69	0.00	0.00	0.00	0.00
01120-62-3	3-methylcyclopentene	5.65	0.11	0.11	0.11	0.11
07688-21-3	cis-2-hexene	6.69	0.07	0.07	0.07	0.07
00922-62-3	3-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	1.40	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	2.82	0.32	0.32	0.33	0.34
00108-08-7	2,4-dimethylpentane	1.78	1.43	1.46	1.53	1.57

00464-06-2	2,2,3-trimethylbutane	1.32	0.00	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	7.66	0.00	0.00	0.00	0.00
00071-43-2	benzene	0.42	0.48	0.48	0.51	0.53
03404-61-3	3-methyl-1-hexene	3.48	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.71	0.00	0.00	0.00	0.00
00625-65-0	2,4-dimethyl-2-pentene	5.53	0.03	0.04	0.04	0.04
00110-82-7	cyclohexane	1.28	0.04	0.05	0.05	0.05
00692-24-0	2-methyl-trans-3-hexene	5.53	0.00	0.00	0.00	0.00
03683-22-5	4-methyl-trans-2-hexene	5.53	0.02	0.03	0.02	0.03
00591-76-4	2-methylhexane	1.08	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	1.51	2.47	2.55	2.74	2.87
00110-83-8	cyclohexene	5.67	0.02	0.02	0.00	0.02
00589-34-4	3-methylhexane	1.40	0.42	0.45	0.48	0.51
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	0.05	0.06	0.06	0.07
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	0.05	0.06	0.05	0.06
00617-78-7	3-ethylpentane	1.40	0.09	0.10	0.10	0.11
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	0.93	3.71	3.85	4.22	4.46
00592-76-7	1-heptene	3.48	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	5.53	0.00	0.00	0.00	0.00
14686-14-7	trans-3-heptene	5.53	0.03	0.02	0.04	0.05
00142-82-5	n-heptane	0.81	0.23	0.25	0.28	0.30
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0.00	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	5.53	0.02	0.03	0.03	0.03
14686-13-6	trans-2-heptene	5.53	0.00	0.02	0.00	0.02
00816-79-5	3-ethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	5.53	0.04	0.05	0.05	0.05
10574-37-5	2,3-dimethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
06443-92-1	cis-2-heptene	5.53	0.00	0.02	0.00	0.02
00108-87-2	methylcyclohexane	1.85	0.09	0.10	0.11	0.12
00590-73-8	2,2-dimethylhexane	1.20	0.02	0.02	0.02	0.03
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	2.31	0.02	0.02	0.03	0.03
00592-13-2	2,5-dimethylhexane	1.63	0.20	0.21	0.24	0.26
00589-43-5	2,4-dimethylhexane	1.50	0.22	0.23	0.27	0.29
02815-58-9	1,2,4-trimethylcyclopentane	1.94	0.00	0.00	0.00	0.02
00563-16-6	3,3-dimethylhexane	1.20	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0.00	0.00	0.00	0.00
00565-75-3	2,3,4-trimethylpentane	1.60	0.64	0.68	0.77	0.85
00108-88-3	toluene	2.73	1.68	1.75	2.15	2.34
00560-21-4	2,3,3-trimethylpentane	1.20	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	1.32	0.17	0.18	0.21	0.23
00592-27-8	2-methylheptane	0.96	0.08	0.08	0.10	0.11
00589-53-7	4-methylheptane	1.20	0.04	0.04	0.05	0.06
00583-48-2	3,4-dimethylhexane	1.20	0.00	0.00	0.00	0.00
00589-81-1	3-methylheptane	0.99	0.12	0.13	0.15	0.17
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
03522-94-9	2,2,5-trimethylhexane	0.97	0.11	0.12	0.14	0.16
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
00111-66-0	1-octene	2.69	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
14850-23-8	trans-4-octene	5.29	0.00	0.00	0.00	0.00
00111-65-9	n-octane	0.61	0.04	0.05	0.06	0.06
13389-42-9	trans-2-octene	5.29	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
16747-30-1	2,4,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	5.29	0.00	0.00	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	1.14	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	1.34	0.00	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	1.14	0.00	0.00	0.00	0.02
01678-91-7	ethylcyclohexane	1.94	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	1.14	0.00	0.00	0.00	0.02
00100-41-4	ethylbenzene	2.70	0.18	0.18	0.26	0.29
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	1.14	0.00	0.00	0.00	0.00

00108-38-3	m- & p-xylene	7.64	0.42	0.43	0.59	0.68
02216-34-4	4-methyloctane	1.14	0.00	0.00	0.00	0.02
03221-61-2	2-methyloctane	1.14	0.00	0.00	0.00	0.00
02216-33-3	3-methyloctane	1.14	0.00	0.00	0.00	0.02
00100-42-5	styrene	2.22	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	6.46	0.14	0.14	0.18	0.21
14720-74-2	2,2,4-trimethylheptane	1.01	0.02	0.02	0.03	0.03
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0.00	0.00	0.00	0.00
02091-95-6	2,2,5-trimethylheptane	1.01	0.03	0.03	0.03	0.04
00124-11-8	1-nonene	2.23	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	0.54	0.02	0.02	0.03	0.03
04110-44-5	3,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	2.24	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	1.01	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	1.01	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	2.12	0.02	0.02	0.03	0.04
00620-14-4	1-methyl-3-ethylbenzene	7.20	0.08	0.07	0.08	0.10
00622-96-8	1-methyl-4-ethylbenzene	7.20	0.04	0.04	0.04	0.05
00108-67-8	1,3,5-trimethylbenzene	10.12	0.25	0.41	0.33	0.42
00871-83-0	2-methylnonane	1.01	0.00	0.00	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	7.20	0.03	0.03	0.03	0.03
00095-63-6	1,2,4-trimethylbenzene	8.83	0.12	0.11	0.11	0.14
00538-93-2	(2-methylpropyl)benzene	1.87	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	1.89	0.00	0.00	0.00	0.00
00124-18-5	n-decane	0.47	0.00	0.00	0.00	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	8.85	0.02	0.02	0.00	0.02
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.06	0.00	0.00	0.00	0.00
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0.00	0.02	0.00	0.00
00105-05-5	1,4-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0.02	0.02	0.00	0.02
00135-01-3	1,2-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0.02	0.02	0.00	0.02
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.42	0.00	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0.00	0.02	0.00	0.00
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	1.06	0.00	0.00	0.00	0.00
00824-22-6	4-methylindan	1.06	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0.00	0.00	0.00	0.00
00824-63-5	2-methylindan	1.06	0.00	0.00	0.00	0.00
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00538-68-1	n-pentylbenzene	1.70	0.00	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0.00	0.00	0.00	0.00
00091-20-3	naphthalene	1.18	0.00	0.00	0.00	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	5.34	0.00	0.02	0.00	0.00
00112-40-3	n-dodecane	0.38	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal		39.53	40.31	41.65	42.99
NMHC-ST	NMHC Subtotal		100.00	100.00	100.00	100.00

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

		MIR	TR-RFA-1 PPBC	TR-RFA-2 PPBC	TR-RFA-3 PPBC	TR-RFA-4 PPBC
00074-84-0	ethane	0.25	0	0	0	0
00074-85-1	ethene	7.29	0	0	0	0
00074-98-6	propane	0.48	72	61	51	45
00115-07-1	propene	9.4	0	0	0	0
00075-28-5	methylpropane	1.21	1090	1060	901	910
00074-86-2	ethyne	0.5	0	0	0	0
00106-97-8	n-butane	1.02	40400	39300	32600	32900
00463-49-0	1,2-propadiene	10.89	0	0	0	0
00624-64-6	trans-2-butene	9.94	200	195	168	169
00106-98-9	1-butene	8.91	39	195	34	34
00115-11-7	2-methylpropene	5.31	38	37	35	35
00590-18-1	cis-2-butene	9.94	250	244	209	210
00463-82-1	2,2-dimethylpropane	0.37	314	305	257	261
00078-78-4	2-methylbutane	1.38	36500	35500	29200	29400
00074-99-7	1-propyne	4.1	0	0	0	0
00590-19-2	1,2-butadiene	10.89	0	0	0	0
00106-99-0	1,3-butadiene	10.89	0	0	0	0
00646-04-8	trans-2-pentene	8.8	1860	1810	1550	1540
00513-35-9	2-methyl-2-butene	6.41	2500	2430	2070	2050
00109-67-1	1-pentene	6.22	736	716	622	621
00563-46-2	2-methyl-1-butene	4.9	1400	1370	1160	1150
00627-20-3	cis-2-pentene	8.8	1010	982	847	840
00689-97-4	1-buten-3-yne	9.24	0	0	0	0
00503-17-3	2-butyne	9.24	0	0	0	0
00107-00-6	1-butyne	9.24	0	0	0	0
00542-92-7	1,3-cyclopentadiene	7.66	0	0	0	0
LE-ST	Light End Subtotal		86409.00	84205.00	69704.00	70165.00

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # COMPOUND

		MIR	PHASE 1 TR-RFA-1 PPBC	TR-RFA-2 PPBC	TR-RFA-3 PPBC	TR-RFA-4 PPBC
00460-12-8	1,3-butadiyne	9.24	0	0	0	0
00563-45-1	3-methyl-1-butene	6.22	214	208	126	130
00109-66-0	n-pentane	1.04	7700	7500	4160	4180
00078-79-5	2-methyl-1,3-butadiene	9.08	29	27	21	22
00558-37-2	3,3-dimethyl-1-butene	4.42	22	22	0	0
02004-70-8	trans-1,3-pentadiene	9.08	26	27	24	22
00075-83-2	2,2-dimethylbutane	0.82	999	969	583	583
00142-29-0	cyclopentene	7.66	265	258	176	172
00691-37-2	4-methyl-1-pentene	4.42	0	0	0	0
00760-20-3	3-methyl-1-pentene	4.42	162	157	106	104
00287-92-3	cyclopentane	2.38	278	269	178	176
00079-29-8	2,3-dimethylbutane	1.07	1720	1670	1030	1020
00563-78-0	2,3-dimethyl-1-butene	4.42	75	83	0	0
01634-04-4	methyl-tert-butyl-ether	0.62	251	184	327	302
00691-38-3	4-methyl-cis-2-pentene	6.69	0	0	0	0
00107-83-5	2-methylpentane	1.53	5370	5230	3150	3110
00674-76-0	4-methyl-trans-2-pentene	6.69	176	168	115	114
00096-14-0	3-methylpentane	1.52	2760	2680	1690	1660
00592-41-6	1-hexene	4.42	115	113	81	79
00763-29-1	2-methyl-1-pentene	4.42	236	229	165	161
00110-54-3	n-hexane	0.98	1800	1760	1180	1150
13269-52-8	trans-3-hexene	6.69	199	197	150	145
07642-09-3	cis-3-hexene	6.69	0	0	0	0
04050-45-7	trans-2-hexene	6.69	374	366	211	205
00625-27-4	2-methyl-2-pentene	6.69	304	297	59	57
00616-12-6	3-methyl-trans-2-pentene	6.69	0	0	223	215
01120-62-3	3-methylcyclopentene	5.65	230	228	168	164
07688-21-3	cis-2-hexene	6.69	152	151	120	114
00922-62-3	3-methyl-cis-2-pentene	6.69	0	0	0	0
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0	0	0	0
00590-35-2	2,2-dimethylpentane	1.40	0	0	0	0
00096-37-7	methylcyclopentane	2.82	792	768	554	532
00108-08-7	2,4-dimethylpentane	1.78	606	582	428	409

00464-06-2	2,2,3-trimethylbutane	1.32	0	0	0	0
07385-78-6	3,4-dimethyl-1-pentene	3.48	0	0	0	0
02213-32-3	2,4-dimethyl-1-pentene	3.48	0	0	0	0
00693-89-0	1-methylcyclopentene	7.66	0	0	0	0
00071-43-2	benzene	0.42	1520	1450	1300	1230
03404-61-3	3-methyl-1-hexene	3.48	0	0	0	0
00562-49-2	3,3-dimethylpentane	0.71	17	16	15	15
00625-65-0	2,4-dimethyl-2-pentene	5.53	45	44	36	33
00110-82-7	cyclohexane	1.28	110	107	93	87
00692-24-0	2-methyl-trans-3-hexene	5.53	0	18	0	0
03683-22-5	4-methyl-trans-2-hexene	5.53	40	39	36	33
00591-76-4	2-methylhexane	1.08	0	0	0	0
00565-59-3	2,3-dimethylpentane	1.51	1300	1240	1000	920
00110-83-8	cyclohexene	5.67	30	30	28	26
00589-34-4	3-methylhexane	1.40	499	481	413	379
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	106	102	90	83
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	86	82	75	68
00617-78-7	3-ethylpentane	1.40	122	117	109	99
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0	0	0	0
00540-84-1	2,2,4-trimethylpentane	0.93	825	782	693	610
00592-76-7	1-heptene	3.48	0	0	0	0
03899-36-3	3-methyl-trans-3-hexene	5.53	16	15	20	19
14686-14-7	trans-3-heptene	5.53	77	67	87	81
00142-82-5	n-heptane	0.81	268	263	252	225
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0	0	0	0
02738-19-4	2-methyl-2-hexene	5.53	47	46	70	64
14686-13-6	trans-2-heptene	5.53	34	33	35	32
00816-79-5	3-ethyl-2-pentene	5.53	0	0	0	0
10574-36-4	3-methyl-cis-2-hexene	5.53	24	23	57	52
10574-37-5	2,3-dimethyl-2-pentene	5.53	33	33	0	0
06443-92-1	cis-2-heptene	5.53	30	29	31	29
00108-87-2	methylcyclohexane	1.85	154	149	144	130
00590-73-8	2,2-dimethylhexane	1.20	17	18	19	17
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0	0	0	0
01640-89-7	ethylcyclopentane	2.31	34	33	35	31
00592-13-2	2,5-dimethylhexane	1.63	77	72	77	66
00589-43-5	2,4-dimethylhexane	1.50	84	79	93	79
02815-58-9	1,2,4-trimethylcyclopentane	1.94	17	17	19	17
00563-16-6	3,3-dimethylhexane	1.20	0	0	0	0
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0	0	19	18
00565-75-3	2,3,4-trimethylpentane	1.60	161	149	175	146
00108-88-3	toluene	2.73	2140	1990	2180	2180
00560-21-4	2,3,3-trimethylpentane	1.20	0	0	0	0
00584-94-1	2,3-dimethylhexane	1.32	71	66	78	65
00592-27-8	2-methylheptane	0.96	66	60	84	69
00589-53-7	4-methylheptane	1.20	39	36	34	28
00583-48-2	3,4-dimethylhexane	1.20	0	0	0	0
00589-81-1	3-methylheptane	0.99	93	87	89	72
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0	0	34	27
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0	0	0	0
03522-94-9	2,2,5-trimethylhexane	0.97	32	30	44	34
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0	0	0	0
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0	0	0	0
00111-66-0	1-octene	2.69	0	0	0	0
16747-26-5	2,2,4-trimethylhexane	1.14	0	0	0	0
14850-23-8	trans-4-octene	5.29	0	0	0	0
00111-65-9	n-octane	0.61	38	35	56	47
13389-42-9	trans-2-octene	5.29	0	0	0	0
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0	0	15	0
16747-30-1	2,4,4-trimethylhexane	1.14	0	0	0	0
07642-04-8	cis-2-octene	5.29	0	0	0	0
01069-53-0	2,3,5-trimethylhexane	1.14	0	0	0	0
02213-23-2	2,4-dimethylheptane	1.34	0	0	0	0
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0	0	0	0
01072-05-5	2,6-dimethylheptane	1.14	0	0	20	16
01678-91-7	ethylcyclohexane	1.94	0	0	0	0
00926-82-9	3,5-dimethylheptane	1.14	0	0	15	0
00100-41-4	ethylbenzene	2.70	208	193	254	277
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0	0	0	0
03074-71-3	2,3-dimethylheptane	1.14	0	0	0	0

00108-38-3	m- & p-xylene	7.64	463	419	566	628
02216-34-4	4-methyloctane	1.14	0	0	28	0
03221-61-2	2-methyloctane	1.14	0	0	0	0
02216-33-3	3-methyloctane	1.14	0	0	17	0
00100-42-5	styrene	2.22	0	0	0	0
00095-47-6	o-xylene	6.46	137	124	175	196
14720-74-2	2,2,4-trimethylheptane	1.01	0	0	0	0
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0	0	0	0
02091-95-6	2,2,5-trimethylheptane	1.01	0	0	0	0
00124-11-8	1-nonene	2.23	0	0	0	0
00111-84-2	n-nonane	0.54	0	0	0	0
04110-44-5	3,3-dimethyloctane	1.01	0	0	0	0
00098-82-8	(1-methylethyl)benzene	2.24	0	0	0	0
07146-60-3	2,3-dimethyloctane	1.01	0	0	0	0
15869-87-1	2,2-dimethyloctane	1.01	0	0	0	0
15869-89-3	2,5-dimethyloctane	1.01	0	0	0	0
04032-94-4	2,4-dimethyloctane	1.01	0	0	0	0
02051-30-1	2,6-dimethyloctane	1.01	0	0	0	0
00103-65-1	n-propylbenzene	2.12	15	0	22	26
00620-14-4	1-methyl-3-ethylbenzene	7.20	42	38	61	71
00622-96-8	1-methyl-4-ethylbenzene	7.20	19	17	26	30
00108-67-8	1,3,5-trimethylbenzene	10.12	136	49	28	34
00871-83-0	2-methylnonane	1.01	0	0	0	0
00611-14-3	1-methyl-2-ethylbenzene	7.20	0	0	17	21
00095-63-6	1,2,4-trimethylbenzene	8.83	47	40	69	79
00538-93-2	(2-methylpropyl)benzene	1.87	0	0	0	0
00135-98-8	(1-methylpropyl)benzene	1.89	0	0	0	0
00124-18-5	n-decane	0.47	0	0	0	0
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0	0	0	0
00526-73-8	1,2,3-trimethylbenzene	8.85	0	0	0	0
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0	0	0	0
00496-11-7	2,3-dihydroindene (indan)	1.06	0	0	0	0
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0	0	0	0
00141-93-5	1,3-diethylbenzene	6.45	0	0	0	0
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0	0	0	0
00105-05-5	1,4-diethylbenzene	6.45	0	0	0	0
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0	0	0	0
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0	0	0	0
00135-01-3	1,2-diethylbenzene	6.45	0	0	0	0
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0	0	0	0
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0	0	0	0
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0	0	0	0
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0	0	0	0
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0	0	0	0
01120-21-4	n-undecane (hendecane)	0.42	0	0	0	0
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0	0	0	0
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0	0	0	0
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0	0	0	0
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0	0	0	0
00874-35-1	5-methylindan	1.06	0	0	0	0
00824-22-6	4-methylindan	1.06	0	0	0	0
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0	0	0	0
00824-63-5	2-methylindan	1.06	0	0	0	0
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0	0	0	0
00538-68-1	n-pentylbenzene	1.70	0	0	0	0
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0	0	0	0
00091-20-3	naphthalene	1.18	0	0	15	0
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0	0	0	0
17171-72-1	1,3-di-n-propylbenzene	5.34	0	0	0	0
00112-40-3	n-dodecane	0.38	0	0	0	0
MR-ST	Mid-Range Subtotal		34174.00	32861.00	23973.00	23315.00
NMHC-ST	NMHC Subtotal		120583.00	117066.00	93677.00	93480.00

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	MIR	TR-RFA-1 UG/M3	TR-RFA-2 UG/M3	TR-RFA-3 UG/M3	TR-RFA-4 UG/M3
00074-84-0	ethane	0.25	0.00	0.00	0.00	0.00
00074-85-1	ethene	7.29	0.00	0.00	0.00	0.00
00074-98-6	propane	0.48	44.00	37.28	31.17	27.50
00115-07-1	propene	9.4	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	1.21	658.54	640.41	544.35	549.79
00074-86-2	ethyne	0.5	0.00	0.00	0.00	0.00
00106-97-8	n-butane	1.02	24408.27	23743.69	19695.78	19877.03
00463-49-0	1,2-propadiene	10.89	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	9.94	116.64	113.73	97.98	98.56
00106-98-9	1-butene	8.91	22.75	113.73	19.83	19.83
00115-11-7	2-methylpropene	5.31	22.16	21.58	20.41	20.41
00590-18-1	cis-2-butene	9.94	145.80	142.30	121.89	122.47
00463-82-1	2,2-dimethylpropane	0.37	188.39	182.99	154.19	156.59
00078-78-4	2-methylbutane	1.38	21899.06	21299.08	17519.24	17639.24
00074-99-7	1-propyne	4.1	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	10.89	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	10.89	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	8.8	1084.77	1055.61	903.98	898.14
00513-35-9	2-methyl-2-butene	6.41	1458.03	1417.20	1207.25	1195.58
00109-67-1	1-pentene	6.22	429.24	417.58	362.76	362.17
00563-46-2	2-methyl-1-butene	4.9	816.49	799.00	676.52	670.69
00627-20-3	cis-2-pentene	8.8	589.04	572.71	493.98	489.90
00689-97-4	1-butene-3-yne	9.24	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	9.24	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	9.24	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	7.66	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal		51883.19	50556.89	41849.33	42127.92

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	MIR	TR-RFA-1 UG/M3	TR-RFA-2 UG/M3	TR-RFA-3 UG/M3	TR-RFA-4 UG/M3
00460-12-8	1,3-butadiyne	9.24	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	6.22	124.81	121.31	73.48	75.82
00109-66-0	n-pentane	1.04	4619.80	4499.81	2495.89	2507.89
00078-79-5	2-methyl-1,3-butadiene	9.08	16.43	15.29	11.90	12.46
00558-37-2	3,3-dimethyl-1-butene	4.42	12.83	12.83	0.00	0.00
02004-70-8	trans-1,3-pentadiene	9.08	14.73	15.29	13.59	12.46
00075-83-2	2,2-dimethylbutane	0.82	596.58	578.67	348.16	348.16
00142-29-0	cyclopentene	7.66	150.11	146.14	99.69	97.43
00691-37-2	4-methyl-1-pentene	4.42	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	4.42	96.74	93.76	63.30	62.11
00287-92-3	cyclopentane	2.38	162.13	156.88	103.81	102.65
00079-29-8	2,3-dimethylbutane	1.07	1027.15	997.29	615.10	609.12
00563-78-0	2,3-dimethyl-1-butene	4.42	41.23	45.62	0.00	0.00
01634-04-4	methyl-tert-butyl-ether	0.62	183.99	134.88	239.70	221.37
00691-38-3	4-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	1.53	3206.86	3123.25	1881.12	1857.23
00674-76-0	4-methyl-trans-2-pentene	6.69	102.65	97.98	67.07	66.49
00096-14-0	3-methylpentane	1.52	1648.22	1600.44	1009.23	991.32
00592-41-6	1-hexene	4.42	67.07	65.90	47.24	46.07
00763-29-1	2-methyl-1-pentene	4.42	137.64	133.56	96.23	93.90
00110-54-3	n-hexane	0.98	1074.92	1051.04	704.67	686.76
13269-52-8	trans-3-hexene	6.69	116.06	114.89	87.48	84.57
07642-09-3	cis-3-hexene	6.69	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	6.69	218.12	213.46	123.06	119.56
00625-27-4	2-methyl-2-pentene	6.69	177.30	173.21	34.41	33.24
00616-12-6	3-methyl-trans-2-pentene	6.69	0.00	0.00	130.06	125.39
01120-62-3	3-methylcyclopentene	5.65	130.93	129.79	95.63	93.36
07688-21-3	cis-2-hexene	6.69	88.65	88.06	69.99	66.49
00922-62-3	3-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	1.40	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	2.82	461.90	447.91	323.10	310.27
00108-08-7	2,4-dimethylpentane	1.78	360.68	346.40	254.74	243.43

00464-06-2	2,2,3-trimethylbutane	1.32	0.00	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
-02213-32-3	2,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	7.66	0.00	0.00	0.00	0.00
00071-43-2	benzene	0.42	822.78	784.89	703.69	665.80
03404-61-3	3-methyl-1-hexene	3.48	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.71	10.12	9.52	8.93	8.93
00625-65-0	2,4-dimethyl-2-pentene	5.53	26.24	25.66	21.00	19.25
00110-82-7	cyclohexane	1.28	64.15	62.40	54.24	50.74
00692-24-0	2-methyl-trans-3-hexene	5.53	0.00	10.50	0.00	0.00
03683-22-5	4-methyl-trans-2-hexene	5.53	23.33	22.75	21.00	19.25
00591-76-4	2-methylhexane	1.08	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	1.51	773.74	738.03	595.18	547.57
00110-83-8	cyclohexene	5.67	17.08	17.08	15.94	14.80
00589-34-4	3-methylhexane	1.40	297.00	286.28	245.81	225.57
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	61.82	59.49	52.49	48.41
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	50.16	47.82	43.74	39.66
00617-78-7	3-ethylpentane	1.40	72.61	69.64	64.88	58.92
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	0.93	489.79	464.26	411.43	362.15
00592-76-7	1-heptene	3.48	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	5.53	9.33	8.75	11.66	11.08
14686-14-7	trans-3-heptene	5.53	44.91	39.08	50.74	47.24
00142-82-5	n-heptane	0.81	159.51	156.53	149.99	133.92
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0.00	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	5.53	27.41	26.83	40.82	37.33
14686-13-6	trans-2-heptene	5.53	19.83	19.25	20.41	18.66
00816-79-5	3-ethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	5.53	14.00	13.41	33.24	30.33
10574-37-5	2,3-dimethyl-2-pentene	5.53	19.25	19.25	0.00	0.00
06443-92-1	cis-2-heptene	5.53	17.50	16.91	18.08	16.91
00108-87-2	methylcyclohexane	1.85	89.81	86.90	83.98	75.82
00590-73-8	2,2-dimethylhexane	1.20	10.09	10.69	11.28	10.09
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	2.31	19.83	19.25	20.41	18.08
00592-13-2	2,5-dimethylhexane	1.63	45.71	42.75	45.71	39.18
00589-43-5	2,4-dimethylhexane	1.50	49.87	46.90	55.21	46.90
02815-58-9	1,2,4-trimethylcyclopentane	1.94	9.91	9.91	11.08	9.91
00563-16-6	3,3-dimethylhexane	1.20	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0.00	0.00	11.08	10.50
00565-75-3	2,3,4-trimethylpentane	1.60	95.58	88.46	103.90	86.68
00108-88-3	toluene	2.73	1171.20	1089.10	1193.09	1193.09
00560-21-4	2,3,3-trimethylpentane	1.20	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	1.32	42.15	39.18	46.31	38.59
00592-27-8	2-methylheptane	0.96	39.18	35.62	49.87	40.96
00589-53-7	4-methylheptane	1.20	23.15	21.37	20.19	16.62
00583-48-2	3,4-dimethylhexane	1.20	0.00	0.00	0.00	0.00
00589-81-1	3-methylheptane	0.99	55.21	51.65	52.84	42.75
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0.00	0.00	19.83	15.75
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
03522-94-9	2,2,5-trimethylhexane	0.97	18.96	17.78	26.07	20.15
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
00111-66-0	1-octene	2.69	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
14850-23-8	trans-4-octene	5.29	0.00	0.00	0.00	0.00
00111-65-9	n-octane	0.61	22.56	20.78	33.25	27.90
13389-42-9	trans-2-octene	5.29	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0.00	0.00	8.75	0.00
16747-30-1	2,4,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	5.29	0.00	0.00	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	1.14	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	1.34	0.00	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	1.14	0.00	0.00	11.85	9.48
01678-91-7	ethylcyclohexane	1.94	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	1.14	0.00	0.00	8.89	0.00
00100-41-4	ethylbenzene	2.70	114.77	106.49	140.15	152.84
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	1.14	0.00	0.00	0.00	0.00

00108-38-3	m- & p-xylene	7.64	255.47	231.20	312.31	346.52
02216-34-4	4-methyloctane	1.14	0.00	0.00	16.59	0.00
03221-61-2	2-methyloctane	1.14	0.00	0.00	0.00	0.00
02216-33-3	3-methyloctane	1.14	0.00	0.00	10.07	0.00
00100-42-5	styrene	2.22	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	6.46	75.59	68.42	96.56	108.15
14720-74-2	2,2,4-trimethylheptane	1.01	0.00	0.00	0.00	0.00
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0.00	0.00	0.00	0.00
02091-95-6	2,2,5-trimethylheptane	1.01	0.00	0.00	0.00	0.00
00124-11-8	1-nonene	2.23	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	0.54	0.00	0.00	0.00	0.00
04110-44-5	3,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	2.24	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	1.01	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	1.01	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	2.12	8.33	0.00	12.22	14.44
00620-14-4	1-methyl-3-ethylbenzene	7.20	23.32	21.10	33.87	39.42
00622-96-8	1-methyl-4-ethylbenzene	7.20	10.55	9.44	14.44	16.66
00108-67-8	1,3,5-trimethylbenzene	10.12	75.52	27.21	15.55	18.88
00871-83-0	2-methylnonane	1.01	0.00	0.00	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	7.20	0.00	0.00	9.44	11.66
00095-63-6	1,2,4-trimethylbenzene	8.83	26.10	22.21	38.31	43.87
00538-93-2	(2-methylpropyl)benzene	1.87	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	1.89	0.00	0.00	0.00	0.00
00124-18-5	n-decane	0.47	0.00	0.00	0.00	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	8.85	0.00	0.00	0.00	0.00
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.06	0.00	0.00	0.00	0.00
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00105-05-5	1,4-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00135-01-3	1,2-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.42	0.00	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	1.06	0.00	0.00	0.00	0.00
00824-22-6	4-methylindan	1.06	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0.00	0.00	0.00	0.00
00824-63-5	2-methylindan	1.06	0.00	0.00	0.00	0.00
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00538-68-1	n-pentylbenzene	1.70	0.00	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0.00	0.00	0.00	0.00
00091-20-3	naphthalene	1.18	0.00	0.00	7.99	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	5.34	0.00	0.00	0.00	0.00
00112-40-3	n-dodecane	0.38	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal		20140.95	19368.39	14073.00	13678.92
NMHC-ST	NMHC Subtotal		72024.14	69925.28	55922.33	55806.84

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # **COMPOUND**

		MIR	TR-RFA-1	TR-RFA-2	TR-RFA-3	TR-RFA-4
			WT%	WT%	WT%	WT%
00074-84-0	ethane	0.25	0.00	0.00	0.00	0.00
00074-85-1	ethene	7.29	0.00	0.00	0.00	0.00
00074-98-6	propane	0.48	0.06	0.05	0.06	0.05
00115-07-1	propene	9.4	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	1.21	0.91	0.92	0.97	0.99
00074-86-2	ethyne	0.5	0.00	0.00	0.00	0.00
00106-97-8	n-butane	1.02	33.89	33.96	35.22	35.62
00463-49-0	1,2-propadiene	10.89	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	9.94	0.16	0.16	0.18	0.18
00106-98-9	1-butene	8.91	0.03	0.16	0.04	0.04
00115-11-7	2-methylpropene	5.31	0.03	0.03	0.04	0.04
00590-18-1	cis-2-butene	9.94	0.20	0.20	0.22	0.22
00463-82-1	2,2-dimethylpropane	0.37	0.26	0.26	0.28	0.28
00078-78-4	2-methylbutane	1.38	30.41	30.46	31.33	31.61
00074-99-7	1-propyne	4.1	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	10.89	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	10.89	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	8.8	1.51	1.51	1.62	1.61
00513-35-9	2-methyl-2-butene	6.41	2.02	2.03	2.16	2.14
00109-67-1	1-pentene	6.22	0.60	0.60	0.65	0.65
00563-46-2	2-methyl-1-butene	4.9	1.13	1.14	1.21	1.20
00627-20-3	cis-2-pentene	8.8	0.82	0.82	0.88	0.88
00689-97-4	1-buten-3-yne	9.24	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	9.24	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	9.24	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	7.66	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal		72.04	72.30	74.83	75.49

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # **COMPOUND**

		MIR	TR-RFA-1	TR-RFA-2	TR-RFA-3	TR-RFA-4
			WT%	WT%	WT%	WT%
00460-12-8	1,3-butadiyne	9.24	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	6.22	0.17	0.17	0.13	0.14
00109-66-0	n-pentane	1.04	6.41	6.44	4.46	4.49
00078-79-5	2-methyl-1,3-butadiene	9.08	0.02	0.02	0.02	0.02
00558-37-2	3,3-dimethyl-1-butene	4.42	0.02	0.02	0.00	0.00
02004-70-8	trans-1,3-pentadiene	9.08	0.02	0.02	0.02	0.02
00075-83-2	2,2-dimethylbutane	0.82	0.83	0.83	0.62	0.62
00142-29-0	cyclopentene	7.66	0.21	0.21	0.18	0.17
00691-37-2	4-methyl-1-pentene	4.42	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	4.42	0.13	0.13	0.11	0.11
00287-92-3	cyclopentane	2.38	0.23	0.22	0.19	0.18
00079-29-8	2,3-dimethylbutane	1.07	1.43	1.43	1.10	1.09
00563-78-0	2,3-dimethyl-1-butene	4.42	0.06	0.07	0.00	0.00
01634-04-4	methyl-tert-butyl-ether	0.62	0.26	0.19	0.43	0.40
00691-38-3	4-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	1.53	4.45	4.47	3.36	3.33
00674-76-0	4-methyl-trans-2-pentene	6.69	0.14	0.14	0.12	0.12
00096-14-0	3-methylpentane	1.52	2.29	2.29	1.80	1.78
00592-41-6	1-hexene	4.42	0.09	0.09	0.08	0.08
00763-29-1	2-methyl-1-pentene	4.42	0.19	0.19	0.17	0.17
00110-54-3	n-hexane	0.98	1.49	1.50	1.26	1.23
13269-52-8	trans-3-hexene	6.69	0.16	0.16	0.16	0.15
07642-09-3	cis-3-hexene	6.69	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	6.69	0.30	0.31	0.22	0.21
00625-27-4	2-methyl-2-pentene	6.69	0.25	0.25	0.06	0.06
00616-12-6	3-methyl-trans-2-pentene	6.69	0.00	0.00	0.23	0.22
01120-62-3	3-methylcyclopentene	5.65	0.18	0.19	0.17	0.17
07688-21-3	cis-2-hexene	6.69	0.12	0.13	0.13	0.12
00922-62-3	3-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	1.40	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	2.82	0.64	0.64	0.58	0.56
00108-08-7	2,4-dimethylpentane	1.78	0.50	0.50	0.46	0.44

00464-06-2	2,2,3-trimethylbutane	1.32	0.00	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	7.66	0.00	0.00	0.00	0.00
00071-43-2	benzene	0.42	1.14	1.12	1.26	1.19
03404-61-3	3-methyl-1-hexene	3.48	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.71	0.01	0.01	0.02	0.02
00625-65-0	2,4-dimethyl-2-pentene	5.53	0.04	0.04	0.04	0.03
00110-82-7	cyclohexane	1.28	0.09	0.09	0.10	0.09
00692-24-0	2-methyl-trans-3-hexene	5.53	0.00	0.02	0.00	0.00
03683-22-5	4-methyl-trans-2-hexene	5.53	0.03	0.03	0.04	0.03
00591-76-4	2-methylhexane	1.08	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	1.51	1.07	1.06	1.06	0.98
00110-83-8	cyclohexene	5.67	0.02	0.02	0.03	0.03
00589-34-4	3-methylhexane	1.40	0.41	0.41	0.44	0.40
D1759-58-6	trans-1,3-dimethylcyclopentane	2.55	0.09	0.09	0.09	0.09
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	0.07	0.07	0.08	0.07
00617-78-7	3-ethylpentane	1.40	0.10	0.10	0.12	0.11
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	0.93	0.68	0.66	0.74	0.65
00592-76-7	1-heptene	3.48	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	5.53	0.01	0.01	0.02	0.02
14686-14-7	trans-3-heptene	5.53	0.06	0.06	0.09	0.08
00142-82-5	n-heptane	0.81	0.22	0.22	0.27	0.24
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0.00	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	5.53	0.04	0.04	0.07	0.07
14686-13-5	trans-2-heptene	5.53	0.03	0.03	0.04	0.03
00816-79-5	3-ethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	5.53	0.02	0.02	0.06	0.05
10574-37-5	2,3-dimethyl-2-pentene	5.53	0.03	0.03	0.00	0.00
06443-92-1	cis-2-heptene	5.53	0.02	0.02	0.03	0.03
00108-87-2	methylcyclohexane	1.85	0.12	0.12	0.15	0.14
00590-73-8	2,2-dimethylhexane	1.20	0.01	0.02	0.02	0.02
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	2.31	0.03	0.03	0.04	0.03
00592-13-2	2,5-dimethylhexane	1.63	0.06	0.06	0.08	0.07
00589-43-5	2,4-dimethylhexane	1.50	0.07	0.07	0.10	0.08
02815-58-9	1,2,4-trimethylcyclopentane	1.94	0.01	0.01	0.02	0.02
00563-16-6	3,3-dimethylhexane	1.20	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0.00	0.00	0.02	0.02
00565-75-3	2,3,4-trimethylpentane	1.60	0.13	0.13	0.19	0.16
00108-88-3	toluene	2.73	1.63	1.56	2.13	2.14
00560-21-4	2,3,3-trimethylpentane	1.20	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	1.32	0.06	0.06	0.08	0.07
00592-27-8	2-methylheptane	0.96	0.05	0.05	0.09	0.07
00589-53-7	4-methylheptane	1.20	0.03	0.03	0.04	0.03
00583-48-2	3,4-dimethylhexane	1.20	0.00	0.00	0.00	0.00
00589-81-1	3-methylheptane	0.99	0.08	0.07	0.09	0.08
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.04	0.03
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
03522-94-9	2,2,5-trimethylhexane	0.97	0.03	0.03	0.05	0.04
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
00111-66-0	1-octene	2.69	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
14850-23-8	trans-4-octene	5.29	0.00	0.00	0.00	0.00
00111-65-9	n-octane	0.61	0.03	0.03	0.06	0.05
13389-42-9	trans-2-octene	5.29	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.02	0.00
16747-30-1	2,4,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	5.29	0.00	0.00	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	1.14	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	1.34	0.00	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	1.14	0.00	0.00	0.02	0.02
01678-91-7	ethylcyclohexane	1.94	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	1.14	0.00	0.00	0.02	0.00
00100-41-4	ethylbenzene	2.70	0.16	0.15	0.25	0.27
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	1.14	0.00	0.00	0.00	0.00

00108-38-3	m- & p-xylene	7.64	0.35	0.33	0.56	0.62
02216-34-4	4-methyloctane	1.14	0.00	0.00	0.03	0.00
03221-61-2	2-methyloctane	1.14	0.00	0.00	0.00	0.00
02216-33-3	3-methyloctane	1.14	0.00	0.00	0.02	0.00
00100-42-5	styrene	2.22	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	6.46	0.10	0.10	0.17	0.19
14720-74-2	2,2,4-trimethylheptane	1.01	0.00	0.00	0.00	0.00
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0.00	0.00	0.00	0.00
02091-95-6	2,2,5-trimethylheptane	1.01	0.00	0.00	0.00	0.00
00124-11-8	1-nonene	2.23	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	0.54	0.00	0.00	0.00	0.00
04110-44-5	3,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	2.24	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	1.01	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	1.01	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	2.12	0.01	0.00	0.02	0.03
00620-14-4	1-methyl-3-ethylbenzene	7.20	0.03	0.03	0.06	0.07
00622-96-8	1-methyl-4-ethylbenzene	7.20	0.01	0.01	0.03	0.03
00108-67-8	1,3,5-trimethylbenzene	10.12	0.10	0.04	0.03	0.03
00871-83-0	2-methylnonane	1.01	0.00	0.00	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	7.20	0.00	0.00	0.02	0.02
00095-63-6	1,2,4-trimethylbenzene	8.83	0.04	0.03	0.07	0.08
00538-93-2	(2-methylpropyl)benzene	1.87	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	1.89	0.00	0.00	0.00	0.00
00124-18-5	n-decane	0.47	0.00	0.00	0.00	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	8.85	0.00	0.00	0.00	0.00
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.06	0.00	0.00	0.00	0.00
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00105-05-5	1,4-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00135-01-3	1,2-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.42	0.00	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	1.06	0.00	0.00	0.00	0.00
00824-22-6	4-methylindan	1.06	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0.00	0.00	0.00	0.00
00824-63-5	2-methylindan	1.06	0.00	0.00	0.00	0.00
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00538-68-1	n-pentylbenzene	1.70	0.00	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0.00	0.00	0.00	0.00
00091-20-3	naphthalene	1.18	0.00	0.00	0.01	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	5.34	0.00	0.00	0.00	0.00
00112-40-3	n-dodecane	0.38	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal		27.96	27.70	25.17	24.51
NMHC-ST	NMHC Subtotal		100.00	100.00	100.00	100.00

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	MIR	T10-RFA-1 PPBC	T10-RFA-2 PPBC	T10-RFA-3 PPBC	T10-RFA-4 PPBC
00074-84-0	ethane	0.25	0	0	0	0
00074-85-1	ethene	7.29	0	0	0	0
00074-98-6	propane	0.48	84	359	241	63
00115-07-1	propene	9.4	0	0	0	0
00075-28-5	methylpropane	1.21	1160	1190	1240	1220
00074-86-2	ethyne	0.5	0	0	0	0
00106-97-8	n-butane	1.02	42900	42300	39500	38500
00463-49-0	1,2-propadiene	10.89	0	0	0	0
00624-64-6	trans-2-butene	9.94	196	189	181	174
00106-98-9	1-butene	8.91	40	40	39	39
00115-11-7	2-methylpropene	5.31	40	39	43	41
00590-18-1	cis-2-butene	9.94	244	235	228	219
00463-82-1	2,2-dimethylpropane	0.37	355	362	376	366
00078-78-4	2-methylbutane	1.38	42000	40600	35400	34100
00074-99-7	1-propyne	4.1	0	0	0	0
00590-19-2	1,2-butadiene	10.89	0	0	0	0
00106-99-0	1,3-butadiene	10.89	0	0	0	0
00646-04-8	trans-2-pentene	8.8	1910	1800	1510	1430
00513-35-9	2-methyl-2-butene	6.41	2610	2460	2070	1960
00109-67-1	1-pentene	6.22	788	746	650	618
00563-46-2	2-methyl-1-butene	4.9	1530	1450	1230	1180
00627-20-3	cis-2-pentene	8.8	1030	975	831	786
00689-97-4	1-buten-3-yne	9.24	0	0	0	0
00503-17-3	2-butyne	9.24	0	0	0	0
00107-00-6	1-butyne	9.24	0	0	0	0
00542-92-7	1,3-cyclopentadiene	7.66	0	0	0	0

LE-ST	Light End Subtotal	94887.00	92745.00	83539.00	80696.00
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MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	MIR	PHASE 1 T10-RFA-1 PPBC	T10-RFA-2 PPBC	T10-RFA-3 PPBC	T10-RFA-4 PPBC
00460-12-8	1,3-butadiene	9.24	0	0	0	0
00563-45-1	3-methyl-1-butene	6.22	233	227	157	153
00109-66-0	n-pentane	1.04	7940	7590	4680	4500
00078-79-5	2-methyl-1,3-butadiene	9.08	32	31	21	20
00558-37-2	3,3-dimethyl-1-butene	4.42	25	24	16	15
02004-70-8	trans-1,3-pentadiene	9.08	27	25	20	17
00075-83-2	2,2-dimethylbutane	0.82	1190	1160	786	760
00142-29-0	cyclopentene	7.66	255	240	168	158
00691-37-2	4-methyl-1-pentene	4.42	0	0	0	0
00760-20-3	3-methyl-1-pentene	4.42	174	170	124	117
00287-92-3	cyclopentane	2.38	269	257	188	175
00079-29-8	2,3-dimethylbutane	1.07	2100	2050	1320	1260
00563-78-0	2,3-dimethyl-1-butene	4.42	0	0	0	0
01634-04-4	methyl-tert-butyl-ether	0.62	2450	2380	526	500
00691-38-3	4-methyl-cis-2-pentene	6.69	0	0	0	0
00107-83-5	2-methylpentane	1.53	6000	5890	3810	3590
00674-76-0	4-methyl-trans-2-pentene	6.69	201	196	134	122
00096-14-0	3-methylpentane	1.52	3030	2990	2060	1930
00592-41-6	1-hexene	4.42	115	115	88	82
00763-29-1	2-methyl-1-pentene	4.42	247	245	184	172
00110-54-3	n-hexane	0.98	1820	1850	1350	1240
13269-52-8	trans-3-hexene	6.69	198	199	159	146
07642-09-3	cis-3-hexene	6.69	0	0	0	0
04050-45-7	trans-2-hexene	6.69	371	376	223	205
00625-27-4	2-methyl-2-pentene	6.69	307	312	61	57
00616-12-6	3-methyl-trans-2-pentene	6.69	0	0	245	223
01120-62-3	3-methylcyclopentene	5.65	238	241	188	173
07688-21-3	cis-2-hexene	6.69	151	156	124	112
00922-62-3	3-methyl-cis-2-pentene	6.69	0	0	0	0
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0	0	0	0
00590-35-2	2,2-dimethylpentane	1.40	0	0	0	0
00096-37-7	methylcyclopentane	2.82	818	844	636	585
00108-08-7	2,4-dimethylpentane	1.78	906	951	578	535

00464-06-2	2,2,3-trimethylbutane	1.32	0	0	0	0
07385-78-6	3,4-dimethyl-1-pentene	3.48	0	0	0	0
02213-32-3	2,4-dimethyl-1-pentene	3.48	0	0	0	0
00693-89-0	1-methylcyclopentene	7.66	0	0	0	0
00071-43-2	benzene	0.42	1260	1340	1100	983
03404-61-3	3-methyl-1-hexene	3.48	0	0	0	0
00562-49-2	3,3-dimethylpentane	0.71	17	21	17	15
00625-65-0	2,4-dimethyl-2-pentene	5.53	53	61	48	44
00110-82-7	cyclohexane	1.28	115	126	107	96
00692-24-0	2-methyl-trans-3-hexene	5.53	23	27	16	15
03683-22-5	4-methyl-trans-2-hexene	5.53	49	55	45	41
00591-76-4	2-methylhexane	1.08	0	0	0	0
00565-59-3	2,3-dimethylpentane	1.51	1890	2100	1360	1240
00110-83-8	cyclohexene	5.67	32	36	31	25
00589-34-4	3-methylhexane	1.40	634	727	556	506
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	122	141	114	103
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	100	117	96	87
00617-78-7	3-ethylpentane	1.40	151	176	143	130
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0	0	0	0
00540-84-1	2,2,4-trimethylpentane	0.93	1630	1860	1050	961
00592-76-7	1-heptene	3.48	0	0	0	0
03899-36-3	3-methyl-trans-3-hexene	5.53	19	26	28	24
14686-14-7	trans-3-heptene	5.53	84	102	85	78
00142-82-5	n-heptane	0.81	327	406	323	293
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0	0	0	0
02738-19-4	2-methyl-2-hexene	5.53	52	65	87	80
14686-13-6	trans-2-heptene	5.53	38	48	45	39
00816-79-5	3-ethyl-2-pentene	5.53	16	20	19	17
10574-36-4	3-methyl-cis-2-hexene	5.53	26	30	71	66
10574-37-5	2,3-dimethyl-2-pentene	5.53	42	54	0	0
06443-92-1	cis-2-heptene	5.53	36	45	40	37
00108-87-2	methylcyclohexane	1.85	193	232	189	172
00590-73-8	2,2-dimethylhexane	1.20	27	33	28	26
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0	0	0	0
01640-89-7	ethylcyclopentane	2.31	43	54	45	41
00592-13-2	2,5-dimethylhexane	1.63	128	160	110	102
00589-43-5	2,4-dimethylhexane	1.50	142	178	135	125
02815-58-9	1,2,4-trimethylcyclopentane	1.94	26	33	29	26
00563-16-6	3,3-dimethylhexane	1.20	0	0	0	0
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	17	30	29	26
00565-75-3	2,3,4-trimethylpentane	1.60	301	383	252	233
00108-88-3	toluene	2.73	2250	2860	2340	2120
00560-21-4	2,3,3-trimethylpentane	1.20	0	0	0	0
00584-94-1	2,3-dimethylhexane	1.32	111	148	117	104
00592-27-8	2-methylheptane	0.96	104	145	123	113
00589-53-7	4-methylheptane	1.20	67	92	49	46
00583-48-2	3,4-dimethylhexane	1.20	15	21	16	15
00589-81-1	3-methylheptane	0.99	151	208	129	120
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0	0	48	46
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0	0	15	0
03522-94-9	2,2,5-trimethylhexane	0.97	63	84	69	64
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0	19	18	17
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0	16	0	0
00111-66-0	1-octene	2.69	0	0	0	0
16747-26-5	2,2,4-trimethylhexane	1.14	19	26	0	0
14850-23-8	trans-4-octene	5.29	0	0	0	0
00111-65-9	n-octane	0.61	62	86	81	76
13389-42-9	trans-2-octene	5.29	0	0	0	0
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0	0	24	22
16747-30-1	2,4,4-trimethylhexane	1.14	0	0	0	0
07642-04-8	cis-2-octene	5.29	0	0	0	0
01069-53-0	2,3,5-trimethylhexane	1.14	0	0	0	0
02213-23-2	2,4-dimethylheptane	1.34	0	0	0	0
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0	0	0	0
01072-05-5	2,6-dimethylheptane	1.14	21	27	28	28
01678-91-7	ethylcyclohexane	1.94	0	0	0	0
00926-82-9	3,5-dimethylheptane	1.14	17	28	22	22
00100-41-4	ethylbenzene	2.70	288	379	363	345
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0	0	0	0
03074-71-3	2,3-dimethylheptane	1.14	0	0	0	0

00108-38-3	m- & p-xylene	7.64	707	902	865	819
02216-34-4	4-methyloctane	1.14	21	28	40	0
03221-61-2	2-methyloctane	1.14	0	0	0	23
02216-33-3	3-methyloctane	1.14	18	23	26	26
00100-42-5	styrene	2.22	0	0	0	0
00095-47-6	o-xylene	6.46	244	299	291	278
14720-74-2	2,2,4-trimethylheptane	1.01	0	0	0	0
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0	0	0	0
02091-95-6	2,2,5-trimethylheptane	1.01	0	15	15	19
00124-11-8	1-nonene	2.23	0	0	0	0
00111-84-2	n-nonane	0.54	0	18	19	18
04110-44-5	3,3-dimethyloctane	1.01	0	0	0	0
00098-82-8	(1-methylethyl)benzene	2.24	0	0	0	0
07146-60-3	2,3-dimethyloctane	1.01	0	0	0	0
15869-87-1	2,2-dimethyloctane	1.01	0	0	0	0
15869-89-3	2,5-dimethyloctane	1.01	0	0	0	0
04032-94-4	2,4-dimethyloctane	1.01	0	0	0	0
02051-30-1	2,6-dimethyloctane	1.01	0	0	0	0
00103-65-1	n-propylbenzene	2.12	41	44	45	42
00620-14-4	1-methyl-3-ethylbenzene	7.20	139	136	137	130
00622-96-8	1-methyl-4-ethylbenzene	7.20	63	61	57	54
00108-67-8	1,3,5-trimethylbenzene	10.12	254	128	69	65
00871-83-0	2-methylnonane	1.01	0	0	0	0
00611-14-3	1-methyl-2-ethylbenzene	7.20	50	45	42	40
00095-63-6	1,2,4-trimethylbenzene	8.83	240	189	185	171
00538-93-2	(2-methylpropyl)benzene	1.87	0	0	0	0
00135-98-8	(1-methylpropyl)benzene	1.89	0	0	0	0
00124-18-5	n-decane	0.47	0	0	20	0
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0	0	0	0
00526-73-8	1,2,3-trimethylbenzene	8.85	55	37	37	34
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0	0	0	0
00496-11-7	2,3-dihydroindene (indan)	1.06	26	19	19	17
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0	0	0	0
00141-93-5	1,3-diethylbenzene	6.45	0	0	0	0
01074-43-7	1-methyl-3-n-propylbenzene	6.45	41	23	23	21
00105-05-5	1,4-diethylbenzene	6.45	31	17	17	15
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0	0	0	0
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	54	27	26	24
00135-01-3	1,2-diethylbenzene	6.45	0	0	0	0
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0	0	0	0
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	40	19	16	0
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	39	19	15	0
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	73	36	32	29
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0	0	0	0
01120-21-4	n-undecane (hendecane)	0.42	16	0	0	0
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	18	0	0	0
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	44	20	18	15
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	63	29	25	22
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0	0	0	0
00874-35-1	5-methylindan	1.06	49	19	16	0
00824-22-6	4-methylindan	1.06	0	0	0	0
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	16	0	0	0
00824-63-5	2-methylindan	1.06	44	21	19	15
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	36	17	16	0
00538-68-1	n-pentylbenzene	1.70	21	0	0	0
01595-11-5	1-methyl-2-n-butylbenzene	5.84	28	0	0	0
00091-20-3	naphthalene	1.18	20	0	18	0
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0	0	0	0
17171-72-1	1,3-di-n-propylbenzene	5.34	37	18	15	0
00112-40-3	n-dodecane	0.38	0	0	0	0
MR-ST	Mid-Range Subtotal		42386.00	43553.00	29609.00	27493.00
NMHC-ST	NMHC Subtotal		137273.00	136298.00	113148.00	108189.00

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	MIR	T10-RFA-1 UG/M3	T10-RFA-2 UG/M3	T10-RFA-3 UG/M3	T10-RFA-4 UG/M3
00074-84-0	ethane	0.25	0.00	0.00	0.00	0.00
00074-85-1	ethene	7.29	0.00	0.00	0.00	0.00
00074-98-6	propane	0.48	51.34	219.40	147.29	38.50
00115-07-1	propene	9.4	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	1.21	700.83	718.96	749.16	737.08
00074-86-2	ethyne	0.5	0.00	0.00	0.00	0.00
00106-97-8	n-butane	1.02	25918.68	25556.18	23864.52	23260.35
00463-49-0	1,2-propadiene	10.89	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	9.94	114.31	110.23	105.56	101.48
00106-98-9	1-butene	8.91	23.33	23.33	22.75	22.75
00115-11-7	2-methylpropene	5.31	23.33	22.75	25.08	23.91
00590-18-1	cis-2-butene	9.94	142.30	137.05	132.97	127.72
00463-82-1	2,2-dimethylpropane	0.37	212.99	217.19	225.59	219.59
00078-78-4	2-methylbutane	1.38	25198.91	24358.95	21239.08	20459.12
00074-99-7	1-propyne	4.1	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	10.89	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	10.89	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	8.8	1113.93	1049.78	880.65	833.99
00513-35-9	2-methyl-2-butene	6.41	1522.18	1434.70	1207.25	1143.09
00109-67-1	1-pentene	6.22	459.57	435.08	379.09	360.42
00563-46-2	2-methyl-1-butene	4.9	892.31	845.66	717.35	688.19
00627-20-3	cis-2-pentene	8.8	600.71	568.63	484.65	458.40
00689-97-4	1-buten-3-yne	9.24	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	9.24	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	9.24	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	7.66	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal		56974.72	55697.87	50180.98	48474.60

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	MIR	T10-RFA-1 UG/M3	T10-RFA-2 UG/M3	T10-RFA-3 UG/M3	T10-RFA-4 UG/M3
00460-12-8	1,3-butadiyne	9.24	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	6.22	135.89	132.39	91.56	89.23
00109-66-0	n-pentane	1.04	4763.79	4553.80	2807.88	2699.88
00078-79-5	2-methyl-1,3-butadiene	9.08	18.13	17.56	11.90	11.33
00558-37-2	3,3-dimethyl-1-butene	4.42	14.58	14.00	9.33	8.75
02004-70-8	trans-1,3-pentadiene	9.08	15.29	14.16	11.33	9.63
00075-83-2	2,2-dimethylbutane	0.82	710.64	692.73	469.38	453.86
00142-29-0	cyclopentene	7.66	144.44	135.95	95.16	89.50
00691-37-2	4-methyl-1-pentene	4.42	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	4.42	103.91	101.52	74.05	69.87
00287-92-3	cyclopentane	2.38	156.88	149.89	109.64	102.06
00079-29-8	2,3-dimethylbutane	1.07	1254.08	1224.22	788.28	752.45
00563-78-0	2,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.00
01634-04-4	methyl-tert-butyl-ether	0.62	1795.89	1744.58	385.57	366.51
00691-38-3	4-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	1.53	3583.08	3517.39	2275.26	2143.88
00674-76-0	4-methyl-trans-2-pentene	6.69	117.23	114.31	78.15	71.15
00096-14-0	3-methylpentane	1.52	1809.46	1785.57	1230.19	1152.56
00592-41-6	1-hexene	4.42	67.07	67.07	51.32	47.82
00763-29-1	2-methyl-1-pentene	4.42	144.05	142.89	107.31	100.31
00110-54-3	n-hexane	0.98	1086.87	1104.78	806.19	740.50
13269-52-8	trans-3-hexene	6.69	115.48	116.06	92.73	85.15
07642-09-3	cis-3-hexene	6.69	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	6.69	216.37	219.29	130.06	119.56
00625-27-4	2-methyl-2-pentene	6.69	179.05	181.96	35.58	33.24
00616-12-6	3-methyl-trans-2-pentene	6.69	0.00	0.00	142.89	130.06
01120-62-3	3-methylcyclopentene	5.65	135.48	137.19	107.02	98.48
07688-21-3	cis-2-hexene	6.69	88.06	90.98	72.32	65.32
00922-62-3	3-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	1.40	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	2.82	477.07	492.23	370.92	341.18
00108-08-7	2,4-dimethylpentane	1.78	539.24	566.02	344.02	318.42

00464-06-2	2,2,3-trimethylbutane	1.32	0.00	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	7.66	0.00	0.00	0.00	0.00
00071-43-2	benzene	0.42	682.04	725.34	595.43	532.10
03404-61-3	3-methyl-1-hexene	3.48	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.71	10.12	12.50	10.12	8.93
00625-65-0	2,4-dimethyl-2-pentene	5.53	30.91	35.58	27.99	25.66
00110-82-7	cyclohexane	1.28	67.07	73.48	62.40	55.99
00692-24-0	2-methyl-trans-3-hexene	5.53	13.41	15.75	9.33	8.75
03683-22-5	4-methyl-trans-2-hexene	5.53	28.58	32.08	26.24	23.91
00591-76-4	2-methylhexane	1.08	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	1.51	1124.90	1249.89	809.45	738.03
00110-83-8	cyclohexene	5.67	18.22	20.49	17.65	14.23
00589-34-4	3-methylhexane	1.40	377.35	432.70	330.92	301.16
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	71.15	82.23	66.49	60.07
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	58.32	68.24	55.99	50.74
00617-78-7	3-ethylpentane	1.40	89.87	104.75	85.11	77.37
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	0.93	967.71	1104.26	623.37	570.53
00592-76-7	1-heptene	3.48	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	5.53	11.08	15.16	16.33	14.00
14686-14-7	trans-3-heptene	5.53	48.99	59.49	49.57	45.49
00142-82-5	n-heptane	0.81	194.63	241.64	192.24	174.39
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0.00	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	5.53	30.33	37.91	50.74	46.66
14686-13-6	trans-2-heptene	5.53	22.16	27.99	26.24	22.75
00816-79-5	3-ethyl-2-pentene	5.53	9.33	11.66	11.08	9.91
10574-36-4	3-methyl-cis-2-hexene	5.53	15.16	17.50	41.41	38.49
10574-37-5	2,3-dimethyl-2-pentene	5.53	24.49	31.49	0.00	0.00
06443-92-1	cis-2-heptene	5.53	21.00	26.24	23.33	21.58
00108-87-2	methylcyclohexane	1.85	112.56	135.30	110.23	100.31
00590-73-8	2,2-dimethylhexane	1.20	16.03	19.59	16.62	15.44
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	2.31	25.08	31.49	26.24	23.91
00592-13-2	2,5-dimethylhexane	1.63	75.99	94.99	65.31	60.56
00589-43-5	2,4-dimethylhexane	1.50	84.30	105.68	80.15	74.21
02815-58-9	1,2,4-trimethylcyclopentane	1.94	15.16	19.25	16.91	15.16
00563-16-6	3,3-dimethylhexane	1.20	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	9.91	17.50	16.91	15.16
00565-75-3	2,3,4-trimethylpentane	1.60	178.70	227.38	149.61	138.33
00108-88-3	toluene	2.73	1231.40	1565.25	1280.66	1160.25
00560-21-4	2,3,3-trimethylpentane	1.20	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	1.32	65.90	87.87	69.46	61.74
00592-27-8	2-methylheptane	0.96	61.74	86.08	73.02	67.09
00589-53-7	4-methylheptane	1.20	39.78	54.62	29.09	27.31
00583-48-2	3,4-dimethylhexane	1.20	8.91	12.47	9.50	8.91
00589-81-1	3-methylheptane	0.99	89.65	123.49	76.59	71.24
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0.00	0.00	27.99	26.83
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0.00	0.00	8.75	0.00
03522-94-9	2,2,5-trimethylhexane	0.97	37.33	49.77	40.88	37.92
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0.00	11.08	10.50	9.91
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0.00	9.33	0.00	0.00
00111-66-0	1-octene	2.69	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	1.14	11.26	15.41	0.00	0.00
14850-23-8	trans-4-octene	5.29	0.00	0.00	0.00	0.00
00111-65-9	n-octane	0.61	36.81	51.06	48.09	45.12
13389-42-9	trans-2-octene	5.29	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0.00	0.00	14.00	12.83
16747-30-1	2,4,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	5.29	0.00	0.00	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	1.14	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	1.34	0.00	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	1.14	12.44	16.00	16.59	16.59
01678-91-7	ethylcyclohexane	1.94	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	1.14	10.07	16.59	13.04	13.04
00100-41-4	ethylbenzene	2.70	158.91	209.12	200.30	190.36
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	1.14	0.00	0.00	0.00	0.00

00108-38-3	m- & p-xylene	7.64	390.11	497.70	477.29	451.91
02216-34-4	4-methyloctane	1.14	12.44	16.59	23.70	0.00
03221-61-2	2-methyloctane	1.14	0.00	0.00	0.00	13.63
02216-33-3	3-methyloctane	1.14	10.67	13.63	15.41	15.41
00100-42-5	styrene	2.22	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	6.46	134.63	164.98	160.57	153.39
14720-74-2	2,2,4-trimethylheptane	1.01	0.00	0.00	0.00	0.00
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0.00	0.00	0.00	0.00
02091-95-6	2,2,5-trimethylheptane	1.01	0.00	8.87	8.87	11.24
00124-11-8	1-nonene	2.23	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	0.54	0.00	10.69	11.28	10.69
04110-44-5	3,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	2.24	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	1.01	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	1.01	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	2.12	22.77	24.43	24.99	23.32
00620-14-4	1-methyl-3-ethylbenzene	7.20	77.18	75.52	76.07	72.19
00622-96-8	1-methyl-4-ethylbenzene	7.20	34.98	33.87	31.65	29.98
00108-67-8	1,3,5-trimethylbenzene	10.12	141.04	71.07	38.31	36.09
00871-83-0	2-methylnonane	1.01	0.00	0.00	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	7.20	27.76	24.99	23.32	22.21
00095-63-6	1,2,4-trimethylbenzene	8.83	133.27	104.95	102.73	94.95
00538-93-2	(2-methylpropyl)benzene	1.87	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	1.89	0.00	0.00	0.00	0.00
00124-18-5	n-decane	0.47	0.00	0.00	11.83	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	8.85	30.54	20.55	20.55	18.88
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.06	14.19	10.37	10.37	9.28
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.45	22.88	12.84	12.84	11.72
00105-05-5	1,4-diethylbenzene	6.45	17.30	9.49	9.49	8.37
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	30.14	15.07	14.51	13.39
00135-01-3	1,2-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	22.32	10.60	8.93	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	21.76	10.60	8.37	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	40.74	20.09	17.86	16.18
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.42	9.45	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	10.05	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	24.55	11.16	10.05	8.37
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	35.16	16.18	13.95	12.28
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	1.06	26.93	10.44	8.79	0.00
00824-22-6	4-methylindan	1.06	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	8.97	0.00	0.00	0.00
00824-63-5	2-methylindan	1.06	24.19	11.54	10.44	8.25
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	20.09	9.49	8.93	0.00
00538-68-1	n-pentylbenzene	1.70	11.77	0.00	0.00	0.00
D1595-11-5	1-methyl-2-n-butylbenzene	5.84	15.80	0.00	0.00	0.00
00091-20-3	naphthalene	1.18	10.66	0.00	9.59	0.00
D0098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	5.34	20.80	10.12	8.43	0.00
00112-40-3	n-dodecane	0.38	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal		25273.92	25928.06	17409.03	16175.40
NMHC-ST	NMHC Subtotal		82248.64	81625.94	67590.01	64650.00

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

		MIR	T10-RFA-1 WT%	T10-RFA-2 WT%	T10-RFA-3 WT%	T10-RFA-4 WT%
00074-84-0	ethane	0.25	0.00	0.00	0.00	0.00
00074-85-1	ethene	7.29	0.00	0.00	0.00	0.00
00074-98-6	propane	0.48	0.06	0.27	0.22	0.06
00115-07-1	propene	9.4	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	1.21	0.85	0.88	1.11	1.14
00074-86-2	ethyne	0.5	0.00	0.00	0.00	0.00
00106-97-8	n-butane	1.02	31.51	31.31	35.31	35.98
00463-49-0	1,2-propadiene	10.89	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	9.94	0.14	0.14	0.16	0.16
00106-98-9	1-butene	8.91	0.03	0.03	0.03	0.04
00115-11-7	2-methylpropene	5.31	0.03	0.03	0.04	0.04
00590-18-1	cis-2-butene	9.94	0.17	0.17	0.20	0.20
00463-82-1	2,2-dimethylpropane	0.37	0.26	0.27	0.33	0.34
00078-78-4	2-methylbutane	1.38	30.64	29.84	31.42	31.65
00074-99-7	1-propyne	4.1	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	10.89	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	10.89	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	8.8	1.35	1.29	1.30	1.29
00513-35-9	2-methyl-2-butene	6.41	1.85	1.76	1.79	1.77
00109-67-1	1-pentene	6.22	0.56	0.53	0.56	0.56
00563-46-2	2-methyl-1-butene	4.9	1.08	1.04	1.06	1.06
00627-20-3	cis-2-pentene	8.8	0.73	0.70	0.72	0.71
00689-97-4	1-buten-3-yne	9.24	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	9.24	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	9.24	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	7.66	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal		69.27	68.24	74.24	74.98

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # COMPOUND

		MIR	T10-RFA-1 WT%	T10-RFA-2 WT%	T10-RFA-3 WT%	T10-RFA-4 WT%
00460-12-8	1,3-butadiyne	9.24	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	6.22	0.17	0.16	0.14	0.14
00109-66-0	n-pentane	1.04	5.79	5.58	4.15	4.18
00078-79-5	2-methyl-1,3-butadiene	9.08	0.02	0.02	0.02	0.02
00558-37-2	3,3-dimethyl-1-butene	4.42	0.02	0.02	0.01	0.01
02004-70-8	trans-1,3-pentadiene	9.08	0.02	0.02	0.02	0.01
00075-83-2	2,2-dimethylbutane	0.82	0.86	0.85	0.69	0.70
00142-29-0	cyclopentene	7.66	0.18	0.17	0.14	0.14
00691-37-2	4-methyl-1-pentene	4.42	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	4.42	0.13	0.12	0.11	0.11
00287-92-3	cyclopentane	2.38	0.19	0.18	0.16	0.16
00079-29-8	2,3-dimethylbutane	1.07	1.52	1.50	1.17	1.16
00563-78-0	2,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.00
01634-04-4	methyl-tert-butyl-ether	0.62	2.18	2.14	0.57	0.57
00691-38-3	4-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	1.53	4.36	4.31	3.37	3.32
00674-76-0	4-methyl-trans-2-pentene	6.69	0.14	0.14	0.12	0.11
00096-14-0	3-methylpentane	1.52	2.20	2.19	1.82	1.78
00592-41-6	1-hexene	4.42	0.08	0.08	0.08	0.07
00763-29-1	2-methyl-1-pentene	4.42	0.18	0.18	0.16	0.16
00110-54-3	n-hexane	0.98	1.32	1.35	1.19	1.15
13269-52-8	trans-3-hexene	6.69	0.14	0.14	0.14	0.13
07642-09-3	cis-3-hexene	6.69	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	6.69	0.26	0.27	0.19	0.18
00625-27-4	2-methyl-2-pentene	6.69	0.22	0.22	0.05	0.05
00616-12-6	3-methyl-trans-2-pentene	6.69	0.00	0.00	0.21	0.20
01120-62-3	3-methylcyclopentene	5.65	0.16	0.17	0.16	0.15
07688-21-3	cis-2-hexene	6.69	0.11	0.11	0.11	0.10
00922-62-3	3-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	1.40	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	2.82	0.58	0.60	0.55	0.53
00108-08-7	2,4-dimethylpentane	1.78	0.66	0.69	0.51	0.49

00464-06-2	2,2,3-trimethylbutane	1.32	0.00	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	7.66	0.00	0.00	0.00	0.00
00071-43-2	benzene	0.42	0.83	0.89	0.88	0.82
03404-61-3	3-methyl-1-hexene	3.48	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.71	0.01	0.02	0.01	0.01
00625-65-0	2,4-dimethyl-2-pentene	5.53	0.04	0.04	0.04	0.04
00110-82-7	cyclohexane	1.28	0.08	0.09	0.09	0.09
00692-24-0	2-methyl-trans-3-hexene	5.53	0.02	0.02	0.01	0.01
03683-22-5	4-methyl-trans-2-hexene	5.53	0.03	0.04	0.04	0.04
00591-76-4	2-methylhexane	1.08	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	1.51	1.37	1.53	1.20	1.14
00110-83-8	cyclohexene	5.67	0.02	0.03	0.03	0.02
00589-34-4	3-methylhexane	1.40	0.46	0.53	0.49	0.47
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	0.09	0.10	0.10	0.09
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	0.07	0.08	0.08	0.08
00617-78-7	3-ethylpentane	1.40	0.11	0.13	0.13	0.12
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	0.93	1.18	1.35	0.92	0.88
00592-76-7	1-heptene	3.48	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	5.53	0.01	0.02	0.02	0.02
14686-14-7	trans-3-heptene	5.53	0.06	0.07	0.07	0.07
00142-82-5	n-heptane	0.81	0.24	0.30	0.28	0.27
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0.00	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	5.53	0.04	0.05	0.08	0.07
14686-13-6	trans-2-heptene	5.53	0.03	0.03	0.04	0.04
00816-79-5	3-ethyl-2-pentene	5.53	0.01	0.01	0.02	0.02
10574-36-4	3-methyl-cis-2-hexene	5.53	0.02	0.02	0.06	0.06
10574-37-5	2,3-dimethyl-2-pentene	5.53	0.03	0.04	0.00	0.00
06443-92-1	cis-2-heptene	5.53	0.03	0.03	0.03	0.03
00108-87-2	methylcyclohexane	1.85	0.14	0.17	0.16	0.16
00590-73-8	2,2-dimethylhexane	1.20	0.02	0.02	0.02	0.02
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	2.31	0.03	0.04	0.04	0.04
00592-13-2	2,5-dimethylhexane	1.63	0.09	0.12	0.10	0.09
00589-43-5	2,4-dimethylhexane	1.50	0.10	0.13	0.12	0.11
02815-58-9	1,2,4-trimethylcyclopentane	1.94	0.02	0.02	0.03	0.02
00563-16-6	3,3-dimethylhexane	1.20	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0.01	0.02	0.03	0.02
00565-75-3	2,3,4-trimethylpentane	1.60	0.22	0.28	0.22	0.21
00108-88-3	toluene	2.73	1.50	1.92	1.89	1.79
00560-21-4	2,3,3-trimethylpentane	1.20	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	1.32	0.08	0.11	0.10	0.10
00592-27-8	2-methylheptane	0.96	0.08	0.11	0.11	0.10
00589-53-7	4-methylheptane	1.20	0.05	0.07	0.04	0.04
00583-48-2	3,4-dimethylhexane	1.20	0.01	0.02	0.01	0.01
00589-81-1	3-methylheptane	0.99	0.11	0.15	0.11	0.11
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.04	0.04
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0.00	0.00	0.01	0.00
03522-94-9	2,2,5-trimethylhexane	0.97	0.05	0.06	0.06	0.06
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0.00	0.01	0.02	0.02
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0.00	0.01	0.00	0.00
00111-66-0	1-octene	2.69	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	1.14	0.01	0.02	0.00	0.00
14850-23-8	trans-4-octene	5.29	0.00	0.00	0.00	0.00
00111-65-9	n-octane	0.61	0.04	0.06	0.07	0.07
13389-42-9	trans-2-octene	5.29	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0.00	0.00	0.02	0.02
16747-30-1	2,4,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	5.29	0.00	0.00	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	1.14	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	1.34	0.00	0.00	0.00	0.00
02207-01-1	cis-1,2-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	1.14	0.02	0.02	0.02	0.03
01678-91-7	ethylcyclohexane	1.94	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	1.14	0.01	0.02	0.02	0.02
00100-41-4	ethylbenzene	2.70	0.19	0.26	0.30	0.29
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	1.14	0.00	0.00	0.00	0.00

00108-38-3	m- & p-xylene	7.64	0.47	0.61	0.71	0.70
02216-34-4	4-methyloctane	1.14	0.02	0.02	0.04	0.00
03221-61-2	2-methyloctane	1.14	0.00	0.00	0.00	0.02
02216-33-3	3-methyloctane	1.14	0.01	0.02	0.02	0.02
00100-42-5	styrene	2.22	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	6.46	0.16	0.20	0.24	0.24
14720-74-2	2,2,4-trimethylheptane	1.01	0.00	0.00	0.00	0.00
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0.00	0.00	0.00	0.00
02091-95-6	2,2,5-trimethylheptane	1.01	0.00	0.01	0.01	0.02
00124-11-8	1-nonene	2.23	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	0.54	0.00	0.01	0.02	0.02
04110-44-5	3,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	2.24	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	1.01	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	1.01	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	2.12	0.03	0.03	0.04	0.04
00620-14-4	1-methyl-3-ethylbenzene	7.20	0.09	0.09	0.11	0.11
00622-96-8	1-methyl-4-ethylbenzene	7.20	0.04	0.04	0.05	0.05
00108-67-8	1,3,5-trimethylbenzene	10.12	0.17	0.09	0.06	0.06
00871-83-0	2-methylnonane	1.01	0.00	0.00	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	7.20	0.03	0.03	0.03	0.03
00095-63-6	1,2,4-trimethylbenzene	8.83	0.16	0.13	0.15	0.15
00538-93-2	(2-methylpropyl)benzene	1.87	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	1.89	0.00	0.00	0.00	0.00
00124-18-5	n-decane	0.47	0.00	0.00	0.02	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	8.85	0.04	0.03	0.03	0.03
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.06	0.02	0.01	0.02	0.01
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0.03	0.02	0.02	0.02
00105-05-5	1,4-diethylbenzene	6.45	0.02	0.01	0.01	0.01
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0.04	0.02	0.02	0.02
00135-01-3	1,2-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0.03	0.01	0.01	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0.03	0.01	0.01	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0.05	0.02	0.03	0.03
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.42	0.01	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0.01	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0.03	0.01	0.01	0.01
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0.04	0.02	0.02	0.02
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	1.06	0.03	0.01	0.01	0.00
00824-22-6	4-methylindan	1.06	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0.01	0.00	0.00	0.00
00824-63-5	2-methylindan	1.06	0.03	0.01	0.02	0.01
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0.02	0.01	0.01	0.00
00538-68-1	n-pentylbenzene	1.70	0.01	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0.02	0.00	0.00	0.00
00091-20-3	naphthalene	1.18	0.01	0.00	0.01	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	5.34	0.03	0.01	0.01	0.00
00112-40-3	n-dodecane	0.38	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal		30.73	31.76	25.76	25.02
NMHC-ST	NMHC Subtotal		100.00	100.00	100.00	100.00

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	MIR	J-PH2-3 PPBC	J-PH2-4 PPBC	J-RFA-3 PPBC	J-RFA-4 PPBC
00074-84-0	ethane	0.25	53	59	0	0
00074-85-1	ethene	7.29	0	0	0	0
00074-98-6	propane	0.48	109	97	52	47
00115-07-1	propene	9.4	0	0	0	0
00075-28-5	methylpropane	1.21	521	556	622	668
00074-86-2	ethyne	0.5	0	0	0	0
00106-97-8	n-butane	1.02	15700	17100	22900	24500
00463-49-0	1,2-propadiene	10.89	0	0	0	0
00624-64-6	trans-2-butene	9.94	37	40	119	127
00106-98-9	1-butene	8.91	16	18	24	26
00115-11-7	2-methylpropene	5.31	68	86	24	25
00590-18-1	cis-2-butene	9.94	31	33	147	158
00463-82-1	2,2-dimethylpropane	0.37	124	135	183	196
00078-78-4	2-methylbutane	1.38	23600	27500	21300	22700
00074-99-7	1-propyne	4.1	0	0	0	0
00590-19-2	1,2-butadiene	10.89	32	35	0	0
00106-99-0	1,3-butadiene	10.89	0	0	0	0
00646-04-8	trans-2-pentene	8.8	1020	1250	1100	1160
00513-35-9	2-methyl-2-butene	6.41	1460	1810	1490	1570
00109-67-1	1-pentene	6.22	463	549	445	473
00563-46-2	2-methyl-1-butene	4.9	920	1100	830	882
00627-20-3	cis-2-pentene	8.8	552	675	603	639
00689-97-4	1-buten-3-yne	9.24	0	0	0	0
00503-17-3	2-butyne	9.24	0	0	0	0
00107-00-6	1-butyne	9.24	0	0	0	0
00542-92-7	1,3-cyclopentadiene	7.66	0	0	0	0
LE-ST	Light End Subtotal		44706.00	51043.00	49839.00	53171.00

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	MIR	J-PH2-3 PPBC	J-PH2-4 PPBC	J-RFA-3 PPBC	J-RFA-4 PPBC
00460-12-8	1,3-butadiyne	9.24	0	0	0	0
00563-45-1	3-methyl-1-butene	6.22	80	86	95	103
00109-66-0	n-pentane	1.04	1870	2120	3150	3380
00078-79-5	2-methyl-1,3-butadiene	9.08	24	25	16	16
00558-37-2	3,3-dimethyl-1-butene	4.42	0	0	0	0
02004-70-8	trans-1,3-pentadiene	9.08	18	21	16	16
00075-83-2	2,2-dimethylbutane	0.82	464	563	459	491
00142-29-0	cyclopentene	7.66	102	124	128	135
00691-37-2	4-methyl-1-pentene	4.42	0	0	0	0
00760-20-3	3-methyl-1-pentene	4.42	65	81	82	88
00287-92-3	cyclopentane	2.38	69	83	134	143
00079-29-8	2,3-dimethylbutane	1.07	1100	1430	51	867
00563-78-0	2,3-dimethyl-1-butene	4.42	0	0	0	54
01634-04-4	methyl-tert-butyl-ether	0.62	6910	8920	83	83
00691-38-3	4-methyl-cis-2-pentene	6.69	0	0	0	0
00107-83-5	2-methylpentane	1.53	2150	2810	2470	2620
00674-76-0	4-methyl-trans-2-pentene	6.69	74	91	92	96
00096-14-0	3-methylpentane	1.52	1040	1380	1330	1410
00592-41-6	1-hexene	4.42	45	61	61	64
00763-29-1	2-methyl-1-pentene	4.42	100	134	127	134
00110-54-3	n-hexane	0.98	468	627	909	959
13269-52-8	trans-3-hexene	6.69	78	107	114	120
07642-09-3	cis-3-hexene	6.69	0	0	0	0
04050-45-7	trans-2-hexene	6.69	110	153	158	166
00625-27-4	2-methyl-2-pentene	6.69	34	46	44	46
00616-12-6	3-methyl-trans-2-pentene	6.69	126	175	172	181
01120-62-3	3-methylcyclopentene	5.65	97	132	131	138
07688-21-3	cis-2-hexene	6.69	60	83	87	92
00922-62-3	3-methyl-cis-2-pentene	6.69	0	0	0	0
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0	0	0	0
00590-35-2	2,2-dimethylpentane	1.40	0	0	0	0
00096-37-7	methylcyclopentane	2.82	275	376	427	453
00108-08-7	2,4-dimethylpentane	1.78	904	1380	342	361

00464-06-2	2,2,3-trimethylbutane	1.32	0	0	0	0
07385-78-6	3,4-dimethyl-1-pentene	3.48	0	0	0	0
02213-32-3	2,4-dimethyl-1-pentene	3.48	0	0	0	0
00693-89-0	1-methylcyclopentene	7.66	0	0	0	0
00071-43-2	benzene	0.42	571	815	817	860
03404-61-3	3-methyl-1-hexene	3.48	0	0	0	0
00562-49-2	3,3-dimethylpentane	0.71	0	0	0	0
00625-65-0	2,4-dimethyl-2-pentene	5.53	24	34	28	30
00110-82-7	cyclohexane	1.28	42	58	69	74
00692-24-0	2-methyl-trans-3-hexene	5.53	0	0	0	0
03683-22-5	4-methyl-trans-2-hexene	5.53	20	29	28	30
00591-76-4	2-methylhexane	1.08	0	0	0	0
00565-59-3	2,3-dimethylpentane	1.51	1620	2570	780	835
00110-83-8	cyclohexene	5.67	36	56	19	20
00589-34-4	3-methylhexane	1.40	341	515	324	349
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	53	76	69	75
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	46	67	58	63
00617-78-7	3-ethylpentane	1.40	79	117	85	92
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0	0	0	0
00540-84-1	2,2,4-trimethylpentane	0.93	2080	3480	544	590
00592-76-7	1-heptene	3.48	0	0	0	0
03899-36-3	3-methyl-trans-3-hexene	5.53	0	19	15	17
14686-14-7	trans-3-heptene	5.53	41	59	51	56
00142-82-5	n-heptane	0.81	209	325	184	202
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0	0	0	0
02738-19-4	2-methyl-2-hexene	5.53	41	57	53	58
14686-13-6	trans-2-heptene	5.53	20	28	25	27
00816-79-5	3-ethyl-2-pentene	5.53	0	0	0	0
10574-36-4	3-methyl-cis-2-hexene	5.53	41	61	42	47
10574-37-5	2,3-dimethyl-2-pentene	5.53	0	0	0	0
06443-92-1	cis-2-heptene	5.53	20	28	23	26
00108-87-2	methylcyclohexane	1.85	93	134	107	121
00590-73-8	2,2-dimethylhexane	1.20	19	29	15	17
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0	0	0	0
01640-89-7	ethylcyclopentane	2.31	25	36	25	29
00592-13-2	2,5-dimethylhexane	1.63	141	240	58	66
00589-43-5	2,4-dimethylhexane	1.50	163	281	68	80
02815-58-9	1,2,4-trimethylcyclopentane	1.94	16	23	15	17
00563-16-6	3,3-dimethylhexane	1.20	0	0	0	0
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	16	22	15	17
00565-75-3	2,3,4-trimethylpentane	1.60	427	759	127	150
00108-88-3	toluene	2.73	1770	2880	1300	1480
00560-21-4	2,3,3-trimethylpentane	1.20	0	0	0	0
00584-94-1	2,3-dimethylhexane	1.32	130	223	55	66
00592-27-8	2-methylheptane	0.96	83	130	58	72
00589-53-7	4-methylheptane	1.20	36	57	24	29
00583-48-2	3,4-dimethylhexane	1.20	0	0	0	0
00589-81-1	3-methylheptane	0.99	92	149	60	76
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	30	42	24	29
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0	0	0	0
03522-94-9	2,2,5-trimethylhexane	0.97	80	139	31	40
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0	16	0	0
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0	0	0	0
00111-66-0	1-octene	2.69	0	0	0	0
16747-26-5	2,2,4-trimethylhexane	1.14	0	0	0	0
14850-23-8	trans-4-octene	5.29	0	0	0	0
00111-65-9	n-octane	0.61	55	85	36	47
13389-42-9	trans-2-octene	5.29	0	0	0	0
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	16	25	0	15
16747-30-1	2,4,4-trimethylhexane	1.14	0	0	0	0
07642-04-8	cis-2-octene	5.29	0	22	0	0
01069-53-0	2,3,5-trimethylhexane	1.14	0	0	0	0
02213-23-2	2,4-dimethylheptane	1.34	0	0	0	0
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0	0	0	0
01072-05-5	2,6-dimethylheptane	1.14	19	30	0	16
01678-91-7	ethylcyclohexane	1.94	0	0	0	0
00926-82-9	3,5-dimethylheptane	1.14	17	28	0	0
00100-41-4	ethylbenzene	2.70	270	423	157	214
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0	0	0	0
03074-71-3	2,3-dimethylheptane	1.14	0	0	0	0

00108-38-3	m- & p-xylene	7.64	635	988	352
02216-34-4	4-methyloctane	1.14	0	22	0
03221-61-2	2-methyloctane	1.14	18	28	0
02216-33-3	3-methyloctane	1.14	20	32	0
00100-42-5	styrene	2.22	0	0	15
00095-47-6	o-xylene	6.46	219	344	112
14720-74-2	2,2,4-trimethylheptane	1.01	0	0	0
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0	0	0
02091-95-6	2,2,5-trimethylheptane	1.01	25	44	0
00124-11-8	1-nonene	2.23	0	0	0
00111-84-2	n-nonane	0.54	20	36	0
04110-44-5	3,3-dimethyloctane	1.01	0	0	0
00098-82-8	(1-methylethyl)benzene	2.24	0	18	0
07146-60-3	2,3-dimethyloctane	1.01	0	0	0
15869-87-1	2,2-dimethyloctane	1.01	0	0	0
15869-89-3	2,5-dimethyloctane	1.01	0	0	0
04032-94-4	2,4-dimethyloctane	1.01	0	0	0
02051-30-1	2,6-dimethyloctane	1.01	0	0	0
00103-65-1	n-propylbenzene	2.12	35	59	0
00620-14-4	1-methyl-3-ethylbenzene	7.20	102	166	41
00622-96-8	1-methyl-4-ethylbenzene	7.20	44	71	17
00108-67-8	1,3,5-trimethylbenzene	10.12	47	78	19
00871-83-0	2-methylnonane	1.01	0	29	0
00611-14-3	1-methyl-2-ethylbenzene	7.20	30	49	0
00095-63-6	1,2,4-trimethylbenzene	8.83	122	199	46
00538-93-2	(2-methylpropyl)benzene	1.87	0	0	0
00135-98-8	(1-methylpropyl)benzene	1.89	0	0	0
00124-18-5	n-decane	0.47	16	24	0
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0	0	0
00526-73-8	1,2,3-trimethylbenzene	8.85	21	35	0
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0	0	0
00496-11-7	2,3-dihydroindene (indan)	1.06	0	18	0
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0	0	0
00141-93-5	1,3-diethylbenzene	6.45	0	0	0
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0	22	0
00105-05-5	1,4-diethylbenzene	6.45	0	16	0
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0	0	0
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0	21	0
00135-01-3	1,2-diethylbenzene	6.45	0	0	0
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0	0	0
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0	0	0
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0	0	0
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0	21	0
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0	0	0
01120-21-4	n-undecane (hendecane)	0.42	0	0	0
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0	0	0
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0	0	0
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0	0	0
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0	0	0
00874-35-1	5-methylindan	1.06	0	0	0
00824-22-6	4-methylindan	1.06	0	0	0
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0	0	0
00824-63-5	2-methylindan	1.06	0	0	0
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0	0	0
00538-68-1	n-pentylbenzene	1.70	0	0	0
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0	0	0
00091-20-3	naphthalene	1.18	0	0	0
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0	0	0
17171-72-1	1,3-di-n-propylbenzene	5.34	0	0	0
00112-40-3	n-dodecane	0.38	0	0	0
MR-ST	Mid-Range Subtotal		26399.00	37495.00	16654.00
NMHC-ST	NMHC Subtotal		71105.00	88538.00	66493.00
					19166.00
					72337.00

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

		MIR	J-PH2-3 UG/M3	J-PH2-4 UG/M3	J-RFA-3 UG/M3	J-RFA-4 UG/M3
00074-84-0	ethane	0.25	33.13	36.88	0.00	0.00
00074-85-1	ethene	7.29	0.00	0.00	0.00	0.00
00074-98-6	propane	0.48	66.62	59.28	31.78	28.72
00115-07-1	propene	9.4	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	1.21	314.77	335.92	375.79	403.58
00074-86-2	ethyne	0.5	0.00	0.00	0.00	0.00
00106-97-8	n-butane	1.02	9485.39	10331.22	13835.38	14802.04
00463-49-0	1,2-propadiene	10.89	0.00	0.00	0.00	0.00
00524-64-6	trans-2-butene	9.94	21.58	23.33	69.40	74.07
00106-98-9	1-butene	8.91	9.33	10.50	14.00	15.16
00115-11-7	2-methylpropene	5.31	39.66	50.16	14.00	14.58
00590-18-1	cis-2-butene	9.94	18.08	19.25	85.73	92.15
00463-82-1	2,2-dimethylpropane	0.37	74.40	81.00	109.80	117.59
00078-78-4	2-methylbutane	1.38	14159.39	16499.29	12779.45	13619.41
00074-99-7	1-propyne	4.1	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	10.89	17.99	19.68	0.00	0.00
00106-99-0	1,3-butadiene	10.89	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	8.8	594.87	729.01	641.53	676.52
00513-35-9	2-methyl-2-butene	6.41	851.49	1055.61	868.98	915.64
00109-67-1	1-pentene	6.22	270.03	320.18	259.53	275.86
00563-46-2	2-methyl-1-butene	4.9	536.55	641.53	484.06	514.39
00627-20-3	cis-2-pentene	8.8	321.93	393.67	351.68	372.67
00689-97-4	1-buten-3-yne	9.24	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	9.24	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	9.24	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	7.66	0.00	0.00	0.00	0.00

LE-ST Light End Subtotal 26815.21 30606.50 29921.11 31922.40

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # COMPOUND

		MIR	J-PH2-3 UG/M3	J-PH2-4 UG/M3	J-RFA-3 UG/M3	J-RFA-4 UG/M3
00460-12-8	1,3-butadiyne	9.24	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	6.22	46.66	50.16	55.41	60.07
00109-66-0	n-pentane	1.04	1121.95	1271.95	1889.92	2027.91
00078-79-5	2-methyl-1,3-butadiene	9.08	13.59	14.16	9.06	9.06
00558-37-2	3,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.00
02004-70-8	trans-1,3-pentadiene	9.08	10.20	11.90	9.06	9.06
00075-83-2	2,2-dimethylbutane	0.82	277.09	336.21	274.11	293.22
00142-29-0	cyclopentene	7.66	57.78	70.24	72.51	76.47
00691-37-2	4-methyl-1-pentene	4.42	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	4.42	38.82	48.37	48.97	52.55
00287-92-3	cyclopentane	2.38	40.24	48.41	78.15	83.40
00079-29-8	2,3-dimethylbutane	1.07	656.90	853.97	30.46	517.76
00563-78-0	2,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	29.68
01634-04-4	methyl-tert-butyl-ether	0.62	5065.15	6538.51	60.84	60.84
00691-38-3	4-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	1.53	1283.94	1678.08	1475.04	1564.61
00674-76-0	4-methyl-trans-2-pentene	6.69	43.16	53.07	53.66	55.99
00096-14-0	3-methylpentane	1.52	621.07	824.11	794.25	842.02
00592-41-6	1-hexene	4.42	26.24	35.58	35.58	37.33
00763-29-1	2-methyl-1-pentene	4.42	58.32	78.15	74.07	78.15
00110-54-3	n-hexane	0.98	279.48	374.43	542.84	572.70
13269-52-8	trans-3-hexene	6.69	45.49	62.40	66.49	69.99
07642-09-3	cis-3-hexene	6.69	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	6.69	64.15	89.23	92.15	96.81
00625-27-4	2-methyl-2-pentene	6.69	19.83	26.83	25.66	26.83
00616-12-6	3-methyl-trans-2-pentene	6.69	73.48	102.06	100.31	105.56
01120-62-3	3-methylcyclopentene	5.65	55.22	75.14	74.57	78.56
07688-21-3	cis-2-hexene	6.69	34.99	48.41	50.74	53.66
00922-62-3	3-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	1.40	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	2.82	160.38	219.29	249.03	264.19
00108-08-7	2,4-dimethylpentane	1.78	538.05	821.35	203.55	214.86

00464-06-2	2,2,3-trimethylbutane	1.32	0.00	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	7.66	0.00	0.00	0.00	0.00
00071-43-2	benzene	0.42	309.08	441.16	442.24	465.52
03404-61-3	3-methyl-1-hexene	3.48	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.71	0.00	0.00	0.00	0.00
00625-65-0	2,4-dimethyl-2-pentene	5.53	14.00	19.83	16.33	17.50
00110-82-7	cyclohexane	1.28	24.49	33.83	40.24	43.16
00692-24-0	2-methyl-trans-3-hexene	5.53	0.00	0.00	0.00	0.00
03683-22-5	4-methyl-trans-2-hexene	5.53	11.66	16.91	16.33	17.50
00591-76-4	2-methylhexane	1.08	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	1.51	964.20	1529.62	464.24	496.98
00110-83-8	cyclohexene	5.67	20.49	31.88	10.82	11.38
00589-34-4	3-methylhexane	1.40	202.96	306.52	192.84	207.72
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	30.91	44.32	40.24	43.74
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	26.83	39.08	33.83	36.74
00617-78-7	3-ethylpentane	1.40	47.02	69.64	50.59	54.76
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	0.93	1234.87	2066.03	322.97	350.28
00592-76-7	1-heptene	3.48	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	5.53	0.00	11.08	8.75	9.91
14686-14-7	trans-3-heptene	5.53	23.91	34.41	29.74	32.66
00142-82-5	n-heptane	0.81	124.39	193.43	109.51	120.23
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0.00	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	5.53	23.91	33.24	30.91	33.83
14686-13-6	trans-2-heptene	5.53	11.66	16.33	14.58	15.75
00816-79-5	3-ethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	5.53	23.91	35.58	24.49	27.41
10574-37-5	2,3-dimethyl-2-pentene	5.53	0.00	0.00	0.00	0.00
06443-92-1	cis-2-heptene	5.53	11.66	16.33	13.41	15.16
00108-87-2	methylcyclohexane	1.85	54.24	78.15	62.40	70.57
00590-73-8	2,2-dimethylhexane	1.20	11.28	17.22	8.91	10.09
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	2.31	14.58	21.00	14.58	16.91
00592-13-2	2,5-dimethylhexane	1.63	83.71	142.49	34.43	39.18
00589-43-5	2,4-dimethylhexane	1.50	96.77	166.83	40.37	47.50
02815-58-9	1,2,4-trimethylcyclopentane	1.94	9.33	13.41	8.75	9.91
00563-16-6	3,3-dimethylhexane	1.20	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	9.33	12.83	8.75	9.91
00565-75-3	2,3,4-trimethylpentane	1.60	253.50	450.61	75.40	89.05
00108-88-3	toluene	2.73	968.70	1576.19	711.48	809.99
00560-21-4	2,3,3-trimethylpentane	1.20	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	1.32	77.18	132.39	32.65	39.18
00592-27-8	2-methylheptane	0.96	49.28	77.18	34.43	42.75
00589-53-7	4-methylheptane	1.20	21.37	33.84	14.25	17.22
00583-48-2	3,4-dimethylhexane	1.20	0.00	0.00	0.00	0.00
00589-81-1	3-methylheptane	0.99	54.62	88.46	35.62	45.12
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	17.50	24.49	14.00	16.91
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
03522-94-9	2,2,5-trimethylhexane	0.97	47.40	82.36	18.37	23.70
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0.00	9.33	0.00	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00	0.00
00111-66-0	1-octene	2.69	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
14850-23-8	trans-4-octene	5.29	0.00	0.00	0.00	0.00
00111-65-9	n-octane	0.61	32.65	50.46	21.37	27.90
13389-42-9	trans-2-octene	5.29	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	9.33	14.58	0.00	8.75
16747-30-1	2,4,4-trimethylhexane	1.14	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	5.29	0.00	12.83	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	1.14	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	1.34	0.00	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	1.14	11.26	17.78	0.00	9.48
01678-91-7	ethylcyclohexane	1.94	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	1.14	10.07	16.59	0.00	0.00
00100-41-4	ethylbenzene	2.70	148.98	233.40	86.63	118.08
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	1.14	0.00	0.00	0.00	0.00

00108-38-3	m- & p-xylene	7.64	350.38	545.16	194.23	270.37
02216-34-4	4-methyloctane	1.14	0.00	13.04	0.00	0.00
03221-61-2	2-methyloctane	1.14	10.67	16.59	0.00	0.00
02216-33-3	3-methyloctane	1.14	11.85	18.96	0.00	8.89
00100-42-5	styrene	2.22	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	6.46	120.84	189.81	61.80	91.04
14720-74-2	2,2,4-trimethylheptane	1.01	0.00	0.00	0.00	0.00
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0.00	0.00	0.00	0.00
02091-95-6	2,2,5-trimethylheptane	1.01	14.79	26.03	0.00	0.00
00124-11-8	1-nonene	2.23	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	0.54	11.87	21.37	0.00	0.00
04110-44-5	3,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	2.24	0.00	9.99	0.00	0.00
07146-60-3	2,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	1.01	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	1.01	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	2.12	19.43	32.76	0.00	12.77
00620-14-4	1-methyl-3-ethylbenzene	7.20	56.64	92.18	22.77	37.20
00622-96-8	1-methyl-4-ethylbenzene	7.20	24.43	39.42	9.44	15.55
00108-67-8	1,3,5-trimethylbenzene	10.12	26.10	43.31	10.55	17.21
00871-83-0	2-methylnonane	1.01	0.00	17.16	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	7.20	16.66	27.21	0.00	10.55
00095-63-6	1,2,4-trimethylbenzene	8.83	67.74	110.50	25.54	44.42
00538-93-2	(2-methylpropyl)benzene	1.87	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	1.89	0.00	0.00	0.00	0.00
00124-18-5	n-decane	0.47	9.47	14.20	0.00	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	8.85	11.66	19.43	0.00	0.00
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.06	0.00	9.83	0.00	0.00
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0.00	12.28	0.00	0.00
00105-05-5	1,4-diethylbenzene	6.45	0.00	8.93	0.00	0.00
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0.00	11.72	0.00	0.00
00135-01-3	1,2-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0.00	11.72	0.00	0.00
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.42	0.00	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	1.06	0.00	0.00	0.00	0.00
00824-22-6	4-methylindan	1.06	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0.00	0.00	0.00	0.00
00824-63-5	2-methylindan	1.06	0.00	0.00	0.00	0.00
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00538-68-1	n-pentylbenzene	1.70	0.00	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0.00	0.00	0.00	0.00
00091-20-3	naphthalene	1.18	0.00	0.00	0.00	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	5.34	0.00	0.00	0.00	0.00
00112-40-3	n-dodecane	0.38	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal		16471.77	23235.24	9775.18	11241.72
NMHC-ST	NMHC Subtotal		43286.98	53841.73	39696.29	43164.12

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	MIR	J-PH2-3	J-PH2-4	J-RFA-3	J-RFA-4
			WT%	WT%	WT%	WT%
00074-84-0	ethane	0.25	0.08	0.07	0.00	0.00
00074-85-1	ethene	7.29	0.00	0.00	0.00	0.00
00074-98-6	propane	0.48	0.15	0.11	0.08	0.07
00115-07-1	propene	9.4	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	1.21	0.73	0.62	0.95	0.93
00074-86-2	ethyne	0.5	0.00	0.00	0.00	0.00
00106-97-8	n-butane	1.02	21.91	19.19	34.85	34.29
00463-49-0	1,2-propadiene	10.89	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	9.94	0.05	0.04	0.17	0.17
00106-98-9	1-butene	8.91	0.02	0.02	0.04	0.04
00115-11-7	2-methylpropene	5.31	0.09	0.09	0.04	0.03
00590-18-1	cis-2-butene	9.94	0.04	0.04	0.22	0.21
00463-82-1	2,2-dimethylpropane	0.37	0.17	0.15	0.28	0.27
00078-78-4	2-methylbutane	1.38	32.71	30.64	32.19	31.55
00074-99-7	1-propyne	4.1	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	10.89	0.04	0.04	0.00	0.00
00106-99-0	1,3-butadiene	10.89	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	8.8	1.37	1.35	1.62	1.57
00513-35-9	2-methyl-2-butene	6.41	1.97	1.96	2.19	2.12
00109-67-1	1-pentene	6.22	0.62	0.59	0.65	0.64
00563-46-2	2-methyl-1-butene	4.9	1.24	1.19	1.22	1.19
00627-20-3	cis-2-pentene	8.8	0.74	0.73	0.89	0.86
00689-97-4	1-buten-3-yne	9.24	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	9.24	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	9.24	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	7.66	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal		61.95	56.85	75.38	73.96

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	MIR	J-PH2-3	J-PH2-4	J-RFA-3	J-RFA-4
			WT%	WT%	WT%	WT%
00460-12-8	1,3-butadiyne	9.24	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	6.22	0.11	0.09	0.14	0.14
00109-66-0	n-pentane	1.04	2.59	2.36	4.76	4.70
00078-79-5	2-methyl-1,3-butadiene	9.08	0.03	0.03	0.02	0.02
00558-37-2	3,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.00
02004-70-8	trans-1,3-pentadiene	9.08	0.02	0.02	0.02	0.02
00075-83-2	2,2-dimethylbutane	0.82	0.64	0.62	0.69	0.68
00142-29-0	cyclopentene	7.66	0.13	0.13	0.18	0.18
00691-37-2	4-methyl-1-pentene	4.42	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	4.42	0.09	0.09	0.12	0.12
00287-92-3	cyclopentane	2.38	0.09	0.09	0.20	0.19
00079-29-8	2,3-dimethylbutane	1.07	1.52	1.59	0.08	1.20
00563-78-0	2,3-dimethyl-1-butene	4.42	0.00	0.00	0.00	0.07
01634-04-4	methyl-tert-butyl-ether	0.62	11.70	12.14	0.15	0.14
00691-38-3	4-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	1.53	2.97	3.12	3.72	3.62
00674-76-0	4-methyl-trans-2-pentene	6.69	0.10	0.10	0.14	0.13
00096-14-0	3-methylpentane	1.52	1.43	1.53	2.00	1.95
00592-41-6	1-hexene	4.42	0.06	0.07	0.09	0.09
00763-29-1	2-methyl-1-pentene	4.42	0.13	0.15	0.19	0.18
00110-54-3	n-hexane	0.98	0.65	0.70	1.37	1.33
13269-52-8	trans-3-hexene	6.69	0.11	0.12	0.17	0.16
07642-09-3	cis-3-hexene	6.69	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	6.69	0.15	0.17	0.23	0.22
00625-27-4	2-methyl-2-pentene	6.69	0.05	0.05	0.06	0.06
00616-12-6	3-methyl-trans-2-pentene	6.69	0.17	0.19	0.25	0.24
01120-62-3	3-methylcyclopentene	5.65	0.13	0.14	0.19	0.18
07688-21-3	cis-2-hexene	6.69	0.08	0.09	0.13	0.12
00922-62-3	3-methyl-cis-2-pentene	6.69	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	1.98	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	1.40	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	2.82	0.37	0.41	0.63	0.61
00108-08-7	2,4-dimethylpentane	1.78	1.24	1.53	0.51	0.50

00464-06-2	2,2,3-trimethylbutane	1.32	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	3.48	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	7.66	0.00	0.00	0.00
00071-43-2	benzene	0.42	0.71	0.82	1.11
03404-61-3	3-methyl-1-hexene	3.48	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.71	0.00	0.00	0.00
00625-65-0	2,4-dimethyl-2-pentene	5.53	0.03	0.04	0.04
00110-82-7	cyclohexane	1.28	0.06	0.06	0.10
00692-24-0	2-methyl-trans-3-hexene	5.53	0.00	0.00	0.00
03683-22-5	4-methyl-trans-2-hexene	5.53	0.03	0.03	0.04
00591-76-4	2-methylhexane	1.08	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	1.51	2.23	2.84	1.17
00110-83-8	cyclohexene	5.67	0.05	0.06	0.03
00589-34-4	3-methylhexane	1.40	0.47	0.57	0.49
01759-58-6	trans-1,3-dimethylcyclopentane	2.55	0.07	0.08	0.10
02532-58-3	cis-1,3-dimethylcyclopentane	2.55	0.06	0.07	0.09
00617-78-7	3-ethylpentane	1.40	0.11	0.13	0.13
00822-50-4	trans-1,2-dimethylcyclopentane	1.85	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	0.93	2.85	3.84	0.81
00592-76-7	1-heptene	3.48	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	5.53	0.00	0.02	0.02
14686-14-7	trans-3-heptene	5.53	0.06	0.06	0.07
00142-82-5	n-heptane	0.81	0.29	0.36	0.28
00107-39-1	2,4,4-trimethyl-1-pentene	2.69	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	5.53	0.06	0.06	0.08
14686-13-6	trans-2-heptene	5.53	0.03	0.03	0.04
00816-79-5	3-ethyl-2-pentene	5.53	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	5.53	0.06	0.07	0.06
10574-37-5	2,3-dimethyl-2-pentene	5.53	0.00	0.00	0.00
06443-92-1	cis-2-heptene	5.53	0.03	0.03	0.04
00108-87-2	methylcyclohexane	1.85	0.13	0.15	0.16
00590-73-8	2,2-dimethylhexane	1.20	0.03	0.03	0.02
00107-40-4	2,4,4-trimethyl-2-pentene	5.29	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	2.31	0.03	0.04	0.04
00592-13-2	2,5-dimethylhexane	1.63	0.19	0.26	0.09
00589-43-5	2,4-dimethylhexane	1.50	0.22	0.31	0.10
02815-58-9	1,2,4-trimethylcyclopentane	1.94	0.02	0.02	0.02
00563-16-6	3,3-dimethylhexane	1.20	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopenta	1.94	0.02	0.02	0.02
00565-75-3	2,3,4-trimethylpentane	1.60	0.59	0.84	0.19
00108-88-3	toluene	2.73	2.24	2.93	1.79
00560-21-4	2,3,3-trimethylpentane	1.20	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	1.32	0.18	0.25	0.08
00592-27-8	2-methylheptane	0.96	0.11	0.14	0.09
00589-53-7	4-methylheptane	1.20	0.05	0.06	0.04
00583-48-2	3,4-dimethylhexane	1.20	0.00	0.00	0.00
00589-81-1	3-methylheptane	0.99	0.13	0.16	0.09
00638-04-0	cis-1,3-dimethylcyclohexane	1.94	0.04	0.05	0.04
02207-04-7	trans-1,4-dimethylcyclohexane	1.94	0.00	0.00	0.00
03522-94-9	2,2,5-trimethylhexane	0.97	0.11	0.15	0.05
02613-65-2	trans-1-methyl-3-ethylcyclopentane	1.94	0.00	0.02	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	1.94	0.00	0.00	0.00
00111-66-0	1-octene	2.69	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	1.14	0.00	0.00	0.00
14850-23-8	trans-4-octene	5.29	0.00	0.00	0.00
00111-65-9	n-octane	0.61	0.08	0.09	0.05
13389-42-9	trans-2-octene	5.29	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	1.94	0.02	0.03	0.00
16747-30-1	2,4,4-trimethylhexane	1.14	0.00	0.00	0.00
07642-04-8	cis-2-octene	5.29	0.00	0.02	0.00
01069-53-0	2,3,5-trimethylhexane	1.14	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	1.34	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	1.94	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	1.14	0.03	0.03	0.00
01678-91-7	ethylcyclohexane	1.94	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	1.14	0.02	0.03	0.00
00100-41-4	ethylbenzene	2.70	0.34	0.43	0.22
01839-63-0	1,3,5-trimethylcyclohexane	2.30	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	1.14	0.00	0.00	0.00

00108-38-3	m- & p-xylene	7.64	0.81	1.01	0.49	0.63
02216-34-4	4-methyloctane	1.14	0.00	0.02	0.00	0.00
03221-61-2	2-methyloctane	1.14	0.02	0.03	0.00	0.00
02216-33-3	3-methyloctane	1.14	0.03	0.04	0.00	0.02
00100-42-5	styrene	2.22	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	6.46	0.28	0.35	0.16	0.21
14720-74-2	2,2,4-trimethylheptane	1.01	0.00	0.00	0.00	0.00
06236-88-0	1-methyl-4-ethylcyclohexane	2.30	0.00	0.00	0.00	0.00
02091-95-6	2,2,5-trimethylheptane	1.01	0.03	0.05	0.00	0.00
00124-11-8	1-nonene	2.23	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	0.54	0.03	0.04	0.00	0.00
04110-44-5	3,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	2.24	0.00	0.02	0.00	0.00
07146-60-3	2,3-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	1.01	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	1.01	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	1.01	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	1.01	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	2.12	0.04	0.06	0.00	0.03
00620-14-4	1-methyl-3-ethylbenzene	7.20	0.13	0.17	0.06	0.09
00622-96-8	1-methyl-4-ethylbenzene	7.20	0.06	0.07	0.02	0.04
00108-67-8	1,3,5-trimethylbenzene	10.12	0.06	0.08	0.03	0.04
00871-83-0	2-methylnonane	1.01	0.00	0.03	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	7.20	0.04	0.05	0.00	0.02
00095-63-6	1,2,4-trimethylbenzene	8.83	0.16	0.21	0.06	0.10
00538-93-2	(2-methylpropyl)benzene	1.87	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	1.89	0.00	0.00	0.00	0.00
00124-18-5	n-decane	0.47	0.02	0.03	0.00	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	8.85	0.03	0.04	0.00	0.00
00099-87-6	1-methyl-4-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.06	0.00	0.02	0.00	0.00
00527-84-4	1-methyl-2-(1-methylethyl)benzene	6.45	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.45	0.00	0.02	0.00	0.00
00105-05-5	1,4-diethylbenzene	6.45	0.00	0.02	0.00	0.00
01074-55-1	1-methyl-4-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	9.07	0.00	0.02	0.00	0.00
00135-01-3	1,2-diethylbenzene	6.45	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	6.45	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	9.07	0.00	0.02	0.00	0.00
02870-04-4	1,3-dimethyl-2-ethylbenzene	9.07	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.42	0.00	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	9.07	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00527-53-7	1,2,3,5-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenze	5.84	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	1.06	0.00	0.00	0.00	0.00
00824-22-6	4-methylindan	1.06	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	5.84	0.00	0.00	0.00	0.00
00824-63-5	2-methylindan	1.06	0.00	0.00	0.00	0.00
00488-23-3	1,2,3,4-tetramethylbenzene	9.07	0.00	0.00	0.00	0.00
00538-68-1	n-pentylbenzene	1.70	0.00	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	5.84	0.00	0.00	0.00	0.00
00091-20-3	naphthalene	1.18	0.00	0.00	0.00	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzen	7.50	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	5.34	0.00	0.00	0.00	0.00
00112-40-3	n-dodecane	0.38	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal		38.05	43.15	24.62	26.04
NMHC-ST	NMHC Subtotal		100.00	100.00	100.00	100.00

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # **COMPOUND**

CAS #	COMPOUND	SR-RFA-BKG	SR-RFA-3	SR-RFA-3-NET	SR-RFA-4	SR-RFA-4-NET
		PPBC	PPBC	PPBC	PPBC	PPBC
00074-84-0	ethane	17	20	3	20	3
00074-85-1	ethene	27	27	0	27	0
00074-98-6	propane	52	62	10	63	11
00115-07-1	propene	0	0	0	0	0
00075-28-5	methylpropane	19	320	301	332	313
00074-86-2	ethyne	28	27	0	27	0
00106-97-8	n-butane	79	11000	10921	11500	11421
00463-49-0	1,2-propadiene	0	0	0	0	0
00624-64-6	trans-2-butene	0	57	57	60	60
00106-98-9	1-butene	0	0	0	0	0
00115-11-7	2-methylpropene	0	19	19	19	19
00590-18-1	cis-2-butene	0	72	72	74	74
00463-82-1	2,2-dimethylpropane	0	89	89	93	93
00078-78-4	2-methylbutane	88	10200	10112	10600	10512
00074-99-7	1-propyne	0	0	0	0	0
00590-19-2	1,2-butadiene	0	0	0	0	0
00106-99-0	1,3-butadiene	0	0	0	0	0
00646-04-8	trans-2-pentene	0	522	522	541	541
00513-35-9	2-methyl-2-butene	0	701	701	728	728
00109-67-1	1-pentene	0	213	213	222	222
00563-46-2	2-methyl-1-butene	0	393	393	409	409
00627-20-3	cis-2-pentene	0	284	284	296	296
00689-97-4	1-buten-3-yne	0	0	0	0	0
00503-17-3	2-butyne	0	0	0	0	0
00107-00-6	1-butyne	0	0	0	0	0
00542-92-7	1,3-cyclopentadiene	0	0	0	0	0
LE-ST	Light End Subtotal	310.00	24006.00	23697.00	25011.00	24702.00

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # **COMPOUND**

CAS #	COMPOUND	SR-RFA-BKG	SR-RFA-3	SR-RFA-3-NET	PHASE 1	PHASE 1
		PPBC	PPBC	PPBC	PPBC	PPBC
00460-12-8	1,3-butadiyne	0	0	0	0	0
00563-45-1	3-methyl-1-butene	0	48	48	39	39
00109-65-0	n-pentane	26	1560	1534	1620	1594
00078-79-5	2-methyl-1,3-butadiene	0	0	0	0	0
00558-37-2	3,3-dimethyl-1-butene	0	0	0	0	0
02004-70-8	trans-1,3-pentadiene	0	0	0	0	0
00075-83-2	2,2-dimethylbutane	0	225	225	232	232
00142-29-0	cyclopentene	0	62	62	65	65
00691-37-2	4-methyl-1-pentene	0	0	0	0	0
00760-20-3	3-methyl-1-pentene	0	40	40	43	43
00287-92-3	cyclopentane	0	66	66	69	69
00079-29-8	2,3-dimethylbutane	0	399	399	411	411
00563-78-0	2,3-dimethyl-1-butene	0	26	26	26	26
D1634-04-4	methyl-tert-butyl-ether	26	58	32	56	30
00691-38-3	4-methyl-cis-2-pentene	0	0	0	0	0
00107-83-5	2-methylpentane	33	1230	1197	1270	1237
00674-76-0	4-methyl-trans-2-pentene	0	47	47	48	48
00096-14-0	3-methylpentane	24	667	643	684	660
00592-41-6	1-hexene	0	32	32	33	33
00763-29-1	2-methyl-1-pentene	0	63	63	65	65
00110-54-3	n-hexane	25	473	448	481	456
13269-52-8	trans-3-hexene	0	58	58	58	58
07642-09-3	cis-3-hexene	0	0	0	0	0
04050-45-7	trans-2-hexene	0	80	80	81	81
00625-27-4	2-methyl-2-pentene	0	22	22	22	22
00616-12-6	3-methyl-trans-2-pentene	0	86	86	87	87
01120-62-3	3-methylcyclopentene	0	64	64	64	64
07688-21-3	cis-2-hexene	0	44	44	44	44
00922-62-3	3-methyl-cis-2-pentene	0	0	0	0	0
00637-92-3	1-ethyl-tert-butyl-ether	0	0	0	0	0
00590-35-2	2,2-dimethylpentane	0	0	0	0	0
00096-37-7	methylcyclopentane	18	218	200	219	201
00108-08-7	2,4-dimethylpentane	0	173	173	171	171
00464-06-2	2,2,3-trimethylbutane	0	0	0	0	0
07385-78-6	3,4-dimethyl-1-pentene	0	0	0	0	0
02213-32-3	2,4-dimethyl-1-pentene	0	0	0	0	0
00693-89-0	1-methylcyclopentene	0	0	0	0	0

00071-43-2	benzene	21	412	391	410	389
03404-61-3	3-methyl-1-hexene	0	0	0	0	0
00562-49-2	3,3-dimethylpentane	0	0	0	0	0
00625-65-0	2,4-dimethyl-2-pentene	0	15	15	0	0
D0110-82-7	cyclohexane	0	36	36	35	35
D0692-24-0	2-methyl-trans-3-hexene	0	0	0	0	0
03683-22-5	4-methyl-trans-2-hexene	0	0	0	0	0
D0591-76-4	2-methylhexane	0	0	0	0	0
D0565-59-3	2,3-dimethylpentane	0	396	396	383	383
D0110-83-8	cyclohexene	0	0	0	0	0
D0589-34-4	3-methylhexane	0	168	168	162	162
D1759-58-6	trans-1,3-dimethylcyclopentane	0	35	35	34	34
D2532-58-3	cis-1,3-dimethylcyclopentane	0	29	29	29	29
D0617-78-7	3-ethylpentane	0	43	43	42	42
D0822-50-4	trans-1,2-dimethylcyclopentane	0	0	0	0	0
D0540-84-1	2,2,4-trimethylpentane	0	269	269	254	254
D0592-76-7	1-heptene	0	0	0	0	0
03899-36-3	3-methyl-trans-3-hexene	0	0	0	0	0
14686-14-7	trans-3-heptene	0	26	26	24	24
D0142-82-5	n-heptane	0	98	98	93	93
D0107-39-1	2,4,4-trimethyl-1-pentene	0	0	0	0	0
D2738-19-4	2-methyl-2-hexene	0	27	27	25	25
14686-13-6	trans-2-heptene	0	0	0	0	0
D0816-79-5	3-ethyl-2-pentene	0	0	0	0	0
10574-36-4	3-methyl-cis-2-hexene	0	21	21	20	20
10574-37-5	2,3-dimethyl-2-pentene	0	0	0	0	0
06443-92-1	cis-2-heptene	0	0	0	0	0
D0108-87-2	methylcyclohexane	0	56	56	53	53
00590-73-8	2,2-dimethylhexane	0	0	0	0	0
00107-40-4	2,4,4-trimethyl-2-pentene	0	0	0	0	0
01640-89-7	ethylcyclopentane	0	0	0	0	0
D0592-13-2	2,5-dimethylhexane	0	30	30	27	27
D0589-43-5	2,4-dimethylhexane	0	36	36	33	33
D2815-58-9	1,2,4-trimethylcyclopentane	0	0	0	0	0
D0563-16-6	3,3-dimethylhexane	0	0	0	0	0
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopentan	0	0	0	0	0
D0565-75-3	2,3,4-trimethylpentane	0	65	65	58	58
D0108-88-3	toluene	276	882	606	816	540
D0560-21-4	2,3,3-trimethylpentane	0	0	0	0	0
D0584-94-1	2,3-dimethylhexane	0	27	27	27	27
D0592-27-8	2-methylheptane	0	33	33	29	29
D0589-53-7	4-methylheptane	0	0	0	0	0
D0583-48-2	3,4-dimethylhexane	0	0	0	0	0
D0589-81-1	3-methylheptane	0	35	35	29	29
D0638-04-0	cis-1,3-dimethylcyclohexane	0	0	0	0	0
D2207-04-7	trans-1,4-dimethylcyclohexane	0	0	0	0	0
03522-94-9	2,2,5-trimethylhexane	0	19	19	15	15
D2613-65-2	trans-1-methyl-3-ethylcyclopentane	0	0	0	0	0
16747-50-5	cis-1-methyl-3-ethylcyclopentane	0	0	0	0	0
D0111-66-0	1-octene	0	0	0	0	0
16747-26-5	2,2,4-trimethylhexane	0	0	0	0	0
14850-23-8	trans-4-octene	0	0	0	0	0
D0111-65-9	n-octane	0	24	24	18	18
13389-42-9	trans-2-octene	0	0	0	0	0
D2207-03-6	trans-1,3-dimethylcyclohexane	0	0	0	0	0
16747-30-1	2,4,4-trimethylhexane	0	0	0	0	0
D7642-04-8	cis-2-octene	0	0	0	0	0
D0169-53-0	2,3,5-trimethylhexane	0	0	0	0	0
D2213-23-2	2,4-dimethylheptane	0	0	0	0	0
D2207-01-4	cis-1,2-dimethylcyclohexane	0	0	0	0	0
D0172-05-5	2,6-dimethylheptane	0	0	0	0	0
D1678-91-7	ethylcyclohexane	0	0	0	0	0
D00926-82-9	3,5-dimethylheptane	0	0	0	0	0
D0100-41-4	ethylbenzene	26	123	97	84	58
D1839-63-0	1,3,5-trimethylcyclohexane	0	0	0	0	0
D3074-71-3	2,3-dimethylheptane	0	0	0	0	0
D0108-38-3	m- & p-xylene	82	312	230	212	130
D2216-34-4	4-methyloctane	0	19	19	0	0
D3221-61-2	2-methyloctane	0	0	0	0	0
D2216-33-3	3-methyloctane	0	15	15	0	0
D0100-42-5	styrene	0	0	0	0	0
D0095-47-6	o-xylene	38	116	78	77	39
14720-74-2	2,2,4-trimethylheptane	0	0	0	0	0
D6236-88-0	1-methyl-4-ethylcyclohexane	0	0	0	0	0

02091-95-6	2,2,5-trimethylheptane	18	18	0	17	0
00124-11-8	1-nonene	0	0	0	0	0
00111-84-2	n-nonane	36	41	5	40	4
04110-44-5	3,3-dimethyloctane	0	0	0	0	0
00098-82-8	(1-methylethyl)benzene	0	0	0	0	0
07146-60-3	2,3-dimethyloctane	0	0	0	0	0
15869-87-1	2,2-dimethyloctane	0	0	0	0	0
15869-89-3	2,5-dimethyloctane	15	16	1	16	1
04032-94-4	2,4-dimethyloctane	0	0	0	0	0
02051-30-1	2,6-dimethyloctane	17	18	1	18	1
00103-65-1	n-propylbenzene	0	35	35	25	25
00620-14-4	1-methyl-3-ethylbenzene	33	80	47	50	17
00622-95-8	1-methyl-4-ethylbenzene	15	35	20	23	8
00108-67-8	1,3,5-trimethylbenzene	26	50	24	35	9
00871-83-0	2-methylnonane	17	38	21	37	20
00611-14-3	1-methyl-2-ethylbenzene	18	33	15	23	5
00095-63-6	1,2,4-trimethylbenzene	64	140	76	87	23
00538-93-2	(2-methylpropyl)benzene	0	0	0	0	0
00135-98-8	(1-methylpropyl)benzene	0	0	0	0	0
00124-18-5	n-decane	72	78	6	42	0
00535-77-3	1-methyl-3-(1-methylethyl)benzene	0	0	0	0	0
00526-73-8	1,2,3-trimethylbenzene	18	32	14	23	5
00099-87-6	1-methyl-4-(1-methylethyl)benzene	0	0	0	0	0
00496-11-7	2,3-dihydroindene (indan)	19	23	4	16	0
00527-84-4	1-methyl-2-(1-methylethyl)benzene	0	0	0	0	0
00141-93-5	1,3-diethylbenzene	0	0	0	0	0
01074-43-7	1-methyl-3-n-propylbenzene	19	30	11	19	0
00105-05-5	1,4-diethylbenzene	0	18	18	0	0
01074-55-1	1-methyl-4-n-propylbenzene	0	0	0	0	0
00934-74-7	1,3-dimethyl-5-ethylbenzene	0	25	25	0	0
00135-01-3	1,2-diethylbenzene	0	0	0	0	0
D1074-17-5	1-methyl-2-n-propylbenzene	0	19	19	0	0
01758-88-9	1,4-dimethyl-2-ethylbenzene	0	17	17	0	0
00874-41-9	1,3-dimethyl-4-ethylbenzene	0	16	16	0	0
00934-80-5	1,2-dimethyl-4-ethylbenzene	20	33	13	0	0
02870-04-4	1,3-dimethyl-2-ethylbenzene	0	16	16	0	0
01120-21-4	n-undecane (hendecane)	0	0	0	0	0
00933-98-2	1,2-dimethyl-3-ethylbenzene	0	0	0	0	0
00095-93-2	1,2,4,5-tetramethylbenzene	0	0	0	0	0
00527-53-7	1,2,3,5-tetramethylbenzene	0	0	0	0	0
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenzen	0	0	0	0	0
D0874-35-1	5-methylindan	0	0	0	0	0
00824-22-6	4-methylindan	0	0	0	0	0
16021-20-8	1-ethyl-2-n-propylbenzene	0	0	0	0	0
D0824-63-5	2-methylindan	0	16	16	0	0
00488-23-3	1,2,3,4-tetramethylbenzene	0	0	0	0	0
D0538-68-1	n-pentylbenzene	0	0	0	0	0
01595-11-5	1-methyl-2-n-butylbenzene	0	0	0	0	0
00091-20-3	naphthalene	0	0	0	0	0
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzene	0	0	0	0	0
17171-72-1	1,3-di-n-propylbenzene	0	0	0	0	0
00112-40-3	n-dodecane	0	0	0	0	0
MR-ST	Mid-Range Subtotal	1002.00	9935.00	8933.00	9348.00	8400.00
NMHC-ST	NMHC Subtotal	1312.00	33941.00	32630.00	34359.00	33102.00

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # **COMPOUND**

		SR-RFA-3 UG/M3	SR-RFA-4 UG/M3	SR-RFA-3 WT%	SR-RFA-4 WT%
00074-84-0	ethane	1.88	1.88	0.01	0.01
00074-85-1	ethene	0.00	0.00	0.00	0.00
00074-98-6	propane	6.11	6.72	0.03	0.03
00115-07-1	propene	0.00	0.00	0.00	0.00
00075-28-5	methylpropane	181.85	189.10	0.93	0.96
00074-86-2	ethyne	0.00	0.00	0.00	0.00
00106-97-8	n-butane	6598.09	6900.17	33.90	34.90
00463-49-0	1,2-propadiene	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	33.24	34.99	0.17	0.18
00106-98-9	1-butene	0.00	0.00	0.00	0.00
00115-11-7	2-methylpropene	11.08	11.08	0.06	0.06
00590-18-1	cis-2-butene	41.99	43.16	0.22	0.22
00463-82-1	2,2-dimethylpropane	53.40	55.80	0.27	0.28
00078-78-4	2-methylbutane	6066.94	6306.93	31.17	31.90
00074-99-7	1-propyne	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	304.44	315.52	1.56	1.60
00513-35-9	2-methyl-2-butene	408.83	424.58	2.10	2.15
00109-67-1	1-pentene	124.22	129.47	0.64	0.65
00563-46-2	2-methyl-1-butene	229.20	238.53	1.18	1.21
00627-20-3	cis-2-pentene	165.63	172.63	0.85	0.87
00689-97-4	1-buten-3-yne	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal	14226.90	14830.56	73.10	75.01

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # **COMPOUND**

		SR-RFA-3 UG/M3	SR-RFA-4 UG/M3	SR-RFA-3 WT%	SR-RFA-4 WT%
00460-12-8	1,3-butadiyne	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	27.99	22.75	0.14	0.12
00109-66-0	n-pentane	920.36	956.36	4.73	4.84
00078-79-5	2-methyl-1,3-butadiene	0.00	0.00	0.00	0.00
00558-37-2	3,3-dimethyl-1-butene	0.00	0.00	0.00	0.00
02004-70-8	trans-1,3-pentadiene	0.00	0.00	0.00	0.00
00075-83-2	2,2-dimethylbutane	134.37	138.55	0.69	0.70
00142-29-0	cyclopentene	35.12	36.82	0.18	0.19
00691-37-2	4-methyl-1-pentene	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	23.89	25.68	0.12	0.13
00287-92-3	cyclopentane	38.49	40.24	0.20	0.20
00079-29-8	2,3-dimethylbutane	238.27	245.44	1.22	1.24
00563-78-0	2,3-dimethyl-1-butene	14.29	14.29	0.07	0.07
01634-04-4	methyl-tert-butyl-ether	23.46	21.99	0.12	0.11
00691-38-3	4-methyl-cis-2-pentene	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	714.82	738.71	3.67	3.74
00674-76-0	4-methyl-trans-2-pentene	27.41	27.99	0.14	0.14
00095-14-0	3-methylpentane	383.99	394.14	1.97	1.99
00592-41-6	1-hexene	18.66	19.25	0.10	0.10
00763-29-1	2-methyl-1-pentene	36.74	37.91	0.19	0.19
00110-54-3	n-hexane	267.54	272.31	1.37	1.38
13269-52-8	trans-3-hexene	33.83	33.83	0.17	0.17
07642-09-3	cis-3-hexene	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	46.66	47.24	0.24	0.24
00625-27-4	2-methyl-2-pentene	12.83	12.83	0.07	0.06
00616-12-6	3-methyl-trans-2-pentene	50.16	50.74	0.26	0.26
01120-62-3	3-methylcyclopentene	36.43	36.43	0.19	0.18
07688-21-3	cis-2-hexene	25.66	25.66	0.13	0.13
00922-62-3	3-methyl-cis-2-pentene	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	116.64	117.23	0.60	0.59
00108-08-7	2,4-dimethylpentane	102.97	101.78	0.53	0.51
00464-06-2	2,2,3-trimethylbutane	0.00	0.00	0.00	0.00
07385-78-6	3,4-dimethyl-1-pentene	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	0.00	0.00	0.00	0.00

D0071-43-2	benzene	211.65	210.57	1.09	1.07
D3404-61-3	3-methyl-1-hexene	0.00	0.00	0.00	0.00
D0562-49-2	3,3-dimethylpentane	0.00	0.00	0.00	0.00
D0625-65-0	2,4-dimethyl-2-pentene	8.75	0.00	0.04	0.00
D0110-82-7	cyclohexane	21.00	20.41	0.11	0.10
D0692-24-0	2-methyl-trans-3-hexene	0.00	0.00	0.00	0.00
D3683-22-5	4-methyl-trans-2-hexene	0.00	0.00	0.00	0.00
D0591-76-4	2-methylhexane	0.00	0.00	0.00	0.00
D0565-59-3	2,3-dimethylpentane	235.69	227.96	1.21	1.15
D0110-83-8	cyclohexene	0.00	0.00	0.00	0.00
D0589-34-4	3-methylhexane	99.99	96.42	0.51	0.49
D1759-58-6	trans-1,3-dimethylcyclopentane	20.41	19.83	0.10	0.10
D2532-58-3	cis-1,3-dimethylcyclopentane	16.91	16.91	0.09	0.09
D0617-78-7	3-ethylpentane	25.59	25.00	0.13	0.13
D0822-50-4	trans-1,2-dimethylcyclopentane	0.00	0.00	0.00	0.00
D00540-84-1	2,2,4-trimethylpentane	159.70	150.80	0.82	0.76
D0592-76-7	1-heptene	0.00	0.00	0.00	0.00
D3899-36-3	3-methyl-trans-3-hexene	0.00	0.00	0.00	0.00
14686-14-7	trans-3-heptene	15.16	14.00	0.08	0.07
D0142-82-5	n-heptane	58.33	55.35	0.30	0.28
D0107-39-1	2,4,4-trimethyl-1-pentene	0.00	0.00	0.00	0.00
D2738-19-4	2-methyl-2-hexene	15.75	14.58	0.08	0.07
14686-13-5	trans-2-heptene	0.00	0.00	0.00	0.00
D0816-79-5	3-ethyl-2-pentene	0.00	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	12.25	11.66	0.06	0.06
10574-37-5	2,3-dimethyl-2-pentene	0.00	0.00	0.00	0.00
D6443-92-1	cis-2-heptene	0.00	0.00	0.00	0.00
D0108-87-2	methylcyclohexane	32.66	30.91	0.17	0.16
D0590-73-8	2,2-dimethylhexane	0.00	0.00	0.00	0.00
D0107-40-4	2,4,4-trimethyl-2-pentene	0.00	0.00	0.00	0.00
D1640-89-7	ethylcyclopentane	0.00	0.00	0.00	0.00
D0592-13-2	2,5-dimethylhexane	17.81	16.03	0.09	0.08
D0589-43-5	2,4-dimethylhexane	21.37	19.59	0.11	0.10
D2815-58-9	1,2,4-trimethylcyclopentane	0.00	0.00	0.00	0.00
D0563-16-6	3,3-dimethylhexane	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopentan	0.00	0.00	0.00	0.00
D0565-75-3	2,3,4-trimethylpentane	38.59	34.43	0.20	0.17
D0108-88-3	toluene	331.66	295.54	1.70	1.49
D00560-21-4	2,3,3-trimethylpentane	0.00	0.00	0.00	0.00
D0584-94-1	2,3-dimethylhexane	16.03	16.03	0.08	0.08
D0592-27-8	2-methylheptane	19.59	17.22	0.10	0.09
D0589-53-7	4-methylheptane	0.00	0.00	0.00	0.00
D0583-48-2	3,4-dimethylhexane	0.00	0.00	0.00	0.00
D0589-81-1	3-methylheptane	20.78	17.22	0.11	0.09
D0638-04-0	cis-1,3-dimethylcyclohexane	0.00	0.00	0.00	0.00
D2207-04-7	trans-1,4-dimethylcyclohexane	0.00	0.00	0.00	0.00
D3522-94-9	2,2,5-trimethylhexane	11.26	8.89	0.06	0.04
D2613-65-2	trans-1-methyl-3-ethylcyclopentane	0.00	0.00	0.00	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	0.00	0.00	0.00	0.00
D0111-66-0	1-octene	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	0.00	0.00	0.00	0.00
14850-23-8	trans-4-octene	0.00	0.00	0.00	0.00
D0111-65-9	n-octane	14.25	10.69	0.07	0.05
13389-42-9	trans-2-octene	0.00	0.00	0.00	0.00
D2207-03-8	trans-1,3-dimethylcyclohexane	0.00	0.00	0.00	0.00
16747-30-1	2,4,4-trimethylhexane	0.00	0.00	0.00	0.00
D7642-04-8	cis-2-octene	0.00	0.00	0.00	0.00
D1069-53-0	2,3,5-trimethylhexane	0.00	0.00	0.00	0.00
D2213-23-2	2,4-dimethylheptane	0.00	0.00	0.00	0.00
D2207-01-4	cis-1,2-dimethylcyclohexane	0.00	0.00	0.00	0.00
D1072-05-5	2,6-dimethylheptane	0.00	0.00	0.00	0.00
D1678-91-7	ethylcyclohexane	0.00	0.00	0.00	0.00
D0926-82-9	3,5-dimethylheptane	0.00	0.00	0.00	0.00
D0100-41-4	ethylbenzene	53.52	32.00	0.28	0.16
D1839-63-0	1,3,5-trimethylcyclohexane	0.00	0.00	0.00	0.00
D3074-71-3	2,3-dimethylheptane	0.00	0.00	0.00	0.00
D0108-38-3	m- & p-xylene	126.91	71.73	0.65	0.36
D2216-34-4	4-methyloctane	11.26	0.00	0.06	0.00
D3221-51-2	2-methyloctane	0.00	0.00	0.00	0.00
D2216-33-3	3-methyloctane	8.89	0.00	0.05	0.00
D0100-42-5	styrene	0.00	0.00	0.00	0.00
D0095-47-6	o-xylene	43.04	21.52	0.22	0.11
14720-74-2	2,2,4-trimethylheptane	0.00	0.00	0.00	0.00
D6236-88-0	1-methyl-4-ethylcyclohexane	0.00	0.00	0.00	0.00

02091-95-6	2,2,5-trimethylheptane	0.00	0.00	0.00	0.00
00124-11-8	1-nonene	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	2.97	2.37	0.02	0.01
04110-44-5	3,3-dimethyloctane	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	0.60	0.60	0.00	0.00
04032-94-4	2,4-dimethyloctane	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	0.60	0.60	0.00	0.00
00103-65-1	n-propylbenzene	19.43	13.88	0.10	0.07
00620-14-4	1-methyl-3-ethylbenzene	26.10	9.44	0.13	0.05
00622-96-8	1-methyl-4-ethylbenzene	11.11	4.44	0.06	0.02
00108-67-8	1,3,5-trimethylbenzene	13.33	5.00	0.07	0.03
00871-83-0	2-methylnonane	12.42	11.83	0.06	0.06
00611-14-3	1-methyl-2-ethylbenzene	8.33	2.78	0.04	0.01
00095-63-6	1,2,4-trimethylbenzene	42.20	12.77	0.22	0.06
00538-93-2	(2-methylpropyl)benzene	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	0.00	0.00	0.00	0.00
00124-18-5	n-decane	3.55	0.00	0.02	0.00
00535-77-3	1-methyl-3-(1-methylethyl)benzene	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	7.77	2.78	0.04	0.01
00099-87-6	1-methyl-4-(1-methylethyl)benzene	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	2.18	0.00	0.01	0.00
00527-84-4	1-methyl-2-(1-methylethyl)benzene	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	6.14	0.00	0.03	0.00
00105-05-5	1,4-diethylbenzene	10.05	0.00	0.05	0.00
01074-55-1	1-methyl-4-n-propylbenzene	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	13.95	0.00	0.07	0.00
00135-01-3	1,2-diethylbenzene	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	10.60	0.00	0.05	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	9.49	0.00	0.05	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	8.93	0.00	0.05	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	7.25	0.00	0.04	0.00
02870-04-4	1,3-dimethyl-2-ethylbenzene	8.93	0.00	0.05	0.00
01120-21-4	n-undecane (hendecane)	0.00	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	0.00	0.00	0.00	0.00
00527-53-7	1,2,3,5-tetramethylbenzene	0.00	0.00	0.00	0.00
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenzen	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	0.00	0.00	0.00	0.00
00824-22-6	4-methylindan	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	0.00	0.00	0.00	0.00
00624-63-5	2-methylindan	8.79	0.00	0.05	0.00
00488-23-3	1,2,3,4-tetramethylbenzene	0.00	0.00	0.00	0.00
00538-68-1	n-pentylbenzene	0.00	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	0.00	0.00	0.00	0.00
00091-20-3	naphthalene	0.00	0.00	0.00	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzene	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	0.00	0.00	0.00	0.00
00112-40-3	n-dodecane	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal	5234.10	4939.93	26.90	24.99
NMHC-ST	NMHC Subtotal	19461.01	19770.49	100.00	100.00

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	S90-RFA-BKG PPBC	S90-RFA-3 PPBC	S90-RFA-3-NET PPBC	S90-RFA-4 PPBC	S90-RFA-4-NET PPBC
00074-84-0	ethane	54	55	1	54	0
00074-85-1	ethene	52	51	0	52	0
00074-98-6	propane	98	118	20	116	18
00115-07-1	propene	21	22	1	22	1
00075-28-5	methylpropane	15	465	450	465	450
00074-86-2	ethyne	54	53	0	53	0
00106-97-8	n-butane	39	15900	15861	15900	15861
00463-49-0	1,2-propadiene	0	0	0	0	0
00624-64-6	trans-2-butene	0	80	80	80	80
00106-98-9	1-butene	0	20	20	20	20
00115-11-7	2-methylpropene	16	32	16	32	16
00590-18-1	cis-2-butene	0	99	99	100	100
00463-82-1	2,2-dimethylpropane	0	132	132	133	133
00078-78-4	2-methylbutane	91	14100	14009	14100	14009
00074-99-7	1-propyne	0	0	0	0	0
00590-19-2	1,2-butadiene	0	0	0	0	0
00106-99-0	1,3-butadiene	0	0	0	0	0
00646-04-8	trans-2-pentene	0	650	650	652	652
00513-35-9	2-methyl-2-butene	0	871	871	871	871
00109-67-1	1-pentene	0	278	278	278	278
00563-46-2	2-methyl-1-butene	0	517	517	517	517
00627-20-3	cis-2-pentene	0	357	357	356	356
00689-97-4	1-buten-3-yne	0	0	0	0	0
00503-17-3	2-butyne	0	0	0	0	0
00107-00-6	1-butyne	0	0	0	0	0
00542-92-7	1,3-cyclopentadiene	0	0	0	0	0
LE-ST	Light End Subtotal	440.00	33800.00	33362.00	33801.00	33362.00

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	S90-RFA-BKG PPBC	PHASE 1		PHASE 1	
			S90-RFA-3 PPBC	S90-RFA-3-NET PPBC	S90-RFA-4 PPBC	S90-RFA-4-NET PPBC
00460-12-8	1,3-butadiyne	0	33	33	0	0
00563-45-1	3-methyl-1-butene	0	65	65	53	53
00109-66-0	n-pentane	32	1990	1958	1990	1958
00078-79-5	2-methyl-1,3-butadiene	0	0	0	0	0
00558-37-2	3,3-dimethyl-1-butene	0	0	0	0	0
02004-70-8	trans-1,3-pentadiene	0	0	0	0	0
00075-83-2	2,2-dimethylbutane	0	290	290	290	290
00142-29-0	cyclopentene	0	70	70	70	70
00691-37-2	4-methyl-1-pentene	0	0	0	0	0
00760-20-3	3-methyl-1-pentene	0	50	50	50	50
00287-92-3	cyclopentane	0	77	77	76	76
00079-29-8	2,3-dimethylbutane	0	488	488	485	485
00563-78-0	2,3-dimethyl-1-butene	0	29	29	29	29
01634-04-4	methyl-tert-butyl-ether	45	104	59	101	56
00691-38-3	4-methyl-cis-2-pentene	0	0	0	0	0
00107-83-5	2-methylpentane	35	1450	1415	1440	1405
00674-76-0	4-methyl-trans-2-pentene	0	52	52	52	52
00096-14-0	3-methylpentane	23	768	745	762	739
00592-41-6	1-hexene	0	34	34	34	34
00763-29-1	2-methyl-1-pentene	0	69	69	69	69
00110-54-3	n-hexane	19	499	480	492	473
13269-52-8	trans-3-hexene	0	60	60	59	59
D7642-09-3	cis-3-hexene	0	0	0	0	0
04050-45-7	trans-2-hexene	0	83	83	82	82
00625-27-4	2-methyl-2-pentene	0	23	23	23	23
00616-12-6	3-methyl-trans-2-pentene	0	91	91	89	89
01120-62-3	3-methylcyclopentene	0	67	67	66	66
07688-21-3	cis-2-hexene	0	45	45	44	44
00922-62-3	3-methyl-cis-2-pentene	0	0	0	0	0
00637-92-3	1-ethyl-tert-butyl-ether	0	0	0	0	0
00590-35-2	2,2-dimethylpentane	0	0	0	0	0
00096-37-7	methylcyclopentane	20	228	208	223	203
00108-08-7	2,4-dimethylpentane	30	190	160	184	154
00464-06-2	2,2,3-trimethylbutane	0	30	30	30	30
07385-78-6	3,4-dimethyl-1-pentene	0	0	0	0	0
02213-32-3	2,4-dimethyl-1-pentene	0	0	0	0	0
00693-89-0	1-methylcyclopentene	0	0	0	0	0

00071-43-2	benzene	28	309	281	301	273
03404-61-3	3-methyl-1-hexene	0	0	0	0	0
00562-49-2	3,3-dimethylpentane	0	0	0	0	0
00625-65-0	2,4-dimethyl-2-pentene	0	15	15	15	15
00110-82-7	cyclohexane	0	36	36	36	36
00692-24-0	2-methyl-trans-3-hexene	0	0	0	0	0
03683-22-5	4-methyl-trans-2-hexene	0	0	0	0	0
00591-76-4	2-methylhexane	0	0	0	0	0
00565-59-3	2,3-dimethylpentane	28	406	378	386	358
00110-83-8	cyclohexene	0	0	0	0	0
00589-34-4	3-methylhexane	0	168	168	159	159
01759-58-6	trans-1,3-dimethylcyclopentane	0	35	35	33	33
02532-58-3	cis-1,3-dimethylcyclopentane	0	29	29	27	27
00617-78-7	3-ethylpentane	0	43	43	40	40
00822-50-4	trans-1,2-dimethylcyclopentane	0	0	0	0	0
00540-84-1	2,2,4-trimethylpentane	23	288	265	267	244
00592-76-7	1-heptene	0	0	0	0	0
03899-36-3	3-methyl-trans-3-hexene	0	0	0	0	0
14686-14-7	trans-3-heptene	0	23	23	21	21
00142-82-5	n-heptane	0	90	90	84	84
00107-39-1	2,4,4-trimethyl-1-pentene	0	0	0	0	0
02738-19-4	2-methyl-2-hexene	0	23	23	21	21
14686-13-6	trans-2-heptene	0	0	0	0	0
00816-79-5	3-ethyl-2-pentene	0	0	0	0	0
10574-36-4	3-methyl-cis-2-hexene	0	17	17	16	16
10574-37-5	2,3-dimethyl-2-pentene	0	0	0	0	0
06443-92-1	cis-2-heptene	0	0	0	0	0
00108-87-2	methylcyclohexane	0	52	52	49	49
00590-73-8	2,2-dimethylhexane	0	0	0	0	0
00107-40-4	2,4,4-trimethyl-2-pentene	0	0	0	0	0
01640-89-7	ethylcyclopentane	0	0	0	0	0
00592-13-2	2,5-dimethylhexane	0	29	29	26	26
00589-43-5	2,4-dimethylhexane	0	35	35	31	31
02815-58-9	1,2,4-trimethylcyclopentane	0	0	0	0	0
00563-16-6	3,3-dimethylhexane	0	0	0	0	0
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopentan	0	0	0	0	0
00565-75-3	2,3,4-trimethylpentane	0	60	60	52	52
00108-88-3	toluene	121	392	271	355	234
00560-21-4	2,3,3-trimethylpentane	0	0	0	0	0
00584-94-1	2,3-dimethylhexane	0	27	27	24	24
00592-27-8	2-methylheptane	0	29	29	25	25
00589-53-7	4-methylheptane	0	0	0	0	0
00583-48-2	3,4-dimethylhexane	0	0	0	0	0
00589-81-1	3-methylheptane	0	30	30	25	25
00638-04-0	cis-1,3-dimethylcyclohexane	0	0	0	0	0
02207-04-7	trans-1,4-dimethylcyclohexane	0	0	0	0	0
03522-94-9	2,2,5-trimethylhexane	0	17	17	0	0
02613-65-2	trans-1-methyl-3-ethylcyclopentane	0	0	0	0	0
16747-50-5	cis-1-methyl-3-ethylcyclopentane	0	0	0	0	0
00111-66-0	1-octene	0	0	0	0	0
16747-26-5	2,2,4-trimethylhexane	0	0	0	0	0
14850-23-8	trans-4-octene	0	0	0	0	0
00111-65-9	n-octane	0	18	18	15	15
13389-42-9	trans-2-octene	0	0	0	0	0
02207-03-6	trans-1,3-dimethylcyclohexane	0	0	0	0	0
16747-30-1	2,4,4-trimethylhexane	0	0	0	0	0
07642-04-8	cis-2-octene	0	0	0	0	0
01069-53-0	2,3,5-trimethylhexane	0	0	0	0	0
02213-23-2	2,4-dimethylheptane	0	0	0	0	0
02207-01-4	cis-1,2-dimethylcyclohexane	0	0	0	0	0
01072-05-5	2,6-dimethylheptane	0	0	0	0	0
01678-91-7	ethylcyclohexane	0	0	0	0	0
00926-82-9	3,5-dimethylheptane	0	0	0	0	0
00100-41-4	ethylbenzene	25	48	23	38	13
01839-63-0	1,3,5-trimethylcyclohexane	0	0	0	0	0
03074-71-3	2,3-dimethylheptane	0	0	0	0	0
00108-38-3	m- & p-xylene	83	131	48	107	24
02216-34-4	4-methyloctane	0	0	0	0	0
03221-61-2	2-methyloctane	0	0	0	0	0
02216-33-3	3-methyloctane	0	0	0	0	0
00100-42-5	styrene	15	16	1	15	0
00095-47-6	o-xylene	36	50	14	41	5
14720-74-2	2,2,4-trimethylheptane	0	0	0	0	0
06236-88-0	1-methyl-4-ethylcyclohexane	0	0	0	0	0

02091-95-6	2,2,5-trimethylheptane	0	18	18	16	16
00124-11-8	1-nonene	0	0	0	0	0
00111-84-2	n-nonane	27	30	3	28	1
04110-44-5	3,3-dimethyloctane	0	0	0	0	0
00098-82-8	(1-methylethyl)benzene	0	0	0	0	0
07146-60-3	2,3-dimethyloctane	0	0	0	0	0
15869-87-1	2,2-dimethyloctane	0	0	0	0	0
15869-89-3	2,5-dimethyloctane	0	0	0	0	0
04032-94-4	2,4-dimethyloctane	0	0	0	0	0
02051-30-1	2,6-dimethyloctane	0	0	0	0	0
00103-65-1	n-propylbenzene	0	15	15	0	0
00620-14-4	1-methyl-3-ethylbenzene	28	33	5	25	0
00622-96-8	1-methyl-4-ethylbenzene	0	15	15	0	0
00108-67-8	1,3,5-trimethylbenzene	20	22	2	18	0
00871-83-0	2-methylnonane	0	0	0	0	0
00611-14-3	1-methyl-2-ethylbenzene	16	16	0	0	0
00095-63-6	1,2,4-trimethylbenzene	57	62	5	49	0
00538-93-2	(2-methylpropyl)benzene	0	0	0	0	0
00135-98-8	(1-methylpropyl)benzene	0	0	0	0	0
00124-18-5	n-decane	35	37	2	51	16
00535-77-3	1-methyl-3-(1-methylethyl)benzene	0	0	0	0	0
00526-73-8	1,2,3-trimethylbenzene	0	0	0	0	0
00099-87-6	1-methyl-4-(1-methylethyl)benzene	0	0	0	0	0
00496-11-7	2,3-dihydroindene (indan)	0	15	15	19	19
00527-84-4	1-methyl-2-(1-methylethyl)benzene	0	0	0	0	0
00141-93-5	1,3-diethylbenzene	0	0	0	0	0
01074-43-7	1-methyl-3-n-propylbenzene	0	0	0	0	0
00105-05-5	1,4-diethylbenzene	0	0	0	0	0
01074-55-1	1-methyl-4-n-propylbenzene	0	0	0	0	0
00934-74-7	1,3-dimethyl-5-ethylbenzene	0	0	0	0	0
00135-01-3	1,2-diethylbenzene	0	0	0	0	0
01074-17-5	1-methyl-2-n-propylbenzene	0	0	0	0	0
01758-88-9	1,4-dimethyl-2-ethylbenzene	0	0	0	0	0
00874-41-9	1,3-dimethyl-4-ethylbenzene	0	0	0	0	0
00934-80-5	1,2-dimethyl-4-ethylbenzene	0	0	0	0	0
02870-04-4	1,3-dimethyl-2-ethylbenzene	0	0	0	0	0
01120-21-4	n-undecane (hendecane)	0	0	0	0	0
00933-98-2	1,2-dimethyl-3-ethylbenzene	0	0	0	0	0
00095-93-2	1,2,4,5-tetramethylbenzene	0	0	0	0	0
00527-53-7	1,2,3,5-tetramethylbenzene	0	0	0	0	0
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenzen	0	0	0	0	0
00874-35-1	5-methylindan	0	0	0	0	0
00824-22-6	4-methylindan	0	0	0	0	0
16021-20-8	1-ethyl-2-n-propylbenzene	0	0	0	0	0
00824-63-5	2-methylindan	0	0	0	0	0
00488-23-3	1,2,3,4-tetramethylbenzene	0	0	0	0	0
00538-68-1	n-pentylbenzene	0	0	0	0	0
01595-11-5	1-methyl-2-n-butylbenzene	0	0	0	0	0
00091-20-3	naphthalene	0	0	0	0	0
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzene	0	0	0	0	0
17171-72-1	1,3-di-n-propylbenzene	0	0	0	0	0
00112-40-3	n-dodecane	0	0	0	0	0
MR-ST	Mid-Range Subtotal	746.00	9564.00	8818.00	9208.00	8491.00
NMHC-ST	NMHC Subtotal	1186.00	43364.00	42180.00	43009.00	41853.00

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

		S90-RFA-3 UG/M3	S90-RFA-4 UG/M3	S90-RFA-3 WT%	S90-RFA-4 WT%
00074-84-0	ethane	0.63	0.00	0.00	0.00
00074-85-1	ethene	0.00	0.00	0.00	0.00
00074-98-6	propane	12.22	11.00	0.05	0.04
00115-07-1	propene	0.58	0.58	0.00	0.00
00075-28-5	methylpropane	271.87	271.87	1.08	1.08
00074-86-2	ethyne	0.00	0.00	0.00	0.00
00106-97-8	n-butane	9582.66	9582.66	37.94	38.23
00463-49-0	1,2-propadiene	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	46.66	46.66	0.18	0.19
00106-98-9	1-butene	11.66	11.66	0.05	0.05
00115-11-7	2-methylpropene	9.33	9.33	0.04	0.04
00590-18-1	cis-2-butene	57.74	58.32	0.23	0.23
00463-82-1	2,2-dimethylpropane	79.20	79.80	0.31	0.32
00078-78-4	2-methylbutane	8405.04	8405.04	33.28	33.53
00074-99-7	1-propyne	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	379.09	380.25	1.50	1.52
00513-35-9	2-methyl-2-butene	507.98	507.98	2.01	2.03
00109-67-4	1-pentene	162.13	162.13	0.64	0.65
00563-46-2	2-methyl-1-butene	301.52	301.52	1.19	1.20
00627-20-3	cis-2-pentene	208.21	207.62	0.82	0.83
00689-97-4	1-buten-3-yne	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal	20036.51	20036.43	79.34	79.93

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	S90-RFA-3 UG/M3	S90-RFA-4 UG/M3	S90-RFA-3 WT%	S90-RFA-4 WT%
00460-12-8	1,3-butadiyne	17.17	0.00	0.07	0.00
00563-45-1	3-methyl-1-butene	37.91	30.91	0.15	0.12
00109-66-0	n-pentane	1174.75	1174.75	4.65	4.69
00078-79-5	2-methyl-1,3-butadiene	0.00	0.00	0.00	0.00
00558-37-2	3,3-dimethyl-1-butene	0.00	0.00	0.00	0.00
02004-70-8	trans-1,3-pentadiene	0.00	0.00	0.00	0.00
00075-63-2	2,2-dimethylbutane	173.18	173.18	0.69	0.69
00142-29-0	cyclopentene	39.65	39.65	0.16	0.16
00691-37-2	4-methyl-1-pentene	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	29.86	29.86	0.12	0.12
00287-92-3	cyclopentane	44.91	44.32	0.18	0.18
00079-29-8	2,3-dimethylbutane	291.42	289.63	1.15	1.16
00563-78-0	2,3-dimethyl-1-butene	15.94	15.94	0.06	0.06
01634-04-4	methyl-tert-butyl-ether	43.25	41.05	0.17	0.16
00691-38-3	4-methyl-cis-2-pentene	0.00	0.00	0.00	0.00
00107-63-5	2-methylpentane	845.01	839.04	3.35	3.35
00674-76-0	4-methyl-trans-2-pentene	30.33	30.33	0.12	0.12
00096-14-0	3-methylpentane	444.90	441.32	1.76	1.76
00592-41-6	1-hexene	19.83	19.83	0.08	0.08
00763-29-1	2-methyl-1-pentene	40.24	40.24	0.16	0.16
00110-54-3	n-hexane	286.65	282.47	1.14	1.13
13269-52-8	trans-3-hexene	34.99	34.41	0.14	0.14
07642-09-3	cis-3-hexene	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	48.41	47.82	0.19	0.19
00625-27-4	2-methyl-2-pentene	13.41	13.41	0.05	0.05
00616-12-6	3-methyl-trans-2-pentene	53.07	51.91	0.21	0.21
01120-62-3	3-methylcyclopentene	38.14	37.57	0.15	0.15
07688-21-3	cis-2-hexene	26.24	25.66	0.10	0.10
00922-62-3	3-methyl-cis-2-pentene	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	121.31	118.39	0.48	0.47
00108-08-7	2,4-dimethylpentane	95.23	91.66	0.38	0.37
00464-06-2	2,2,3-trimethylbutane	17.86	17.86	0.07	0.07
07385-78-6	3,4-dimethyl-1-pentene	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	0.00	0.00	0.00	0.00

00071-43-2	benzene	152.11	147.78	0.60	0.59
03404-61-3	3-methyl-1-hexene	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.00	0.00	0.00	0.00
00625-65-0	2,4-dimethyl-2-pentene	8.75	8.75	0.03	0.03
00110-82-7	cyclohexane	21.00	21.00	0.08	0.08
00692-24-0	2-methyl-trans-3-hexene	0.00	0.00	0.00	0.00
03683-22-5	4-methyl-trans-2-hexene	0.00	0.00	0.00	0.00
00591-76-4	2-methylhexane	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	224.98	213.08	0.89	0.85
00110-83-8	cyclohexene	0.00	0.00	0.00	0.00
00589-34-4	3-methylhexane	99.99	94.63	0.40	0.38
01759-58-6	trans-1,3-dimethylcyclopentane	20.41	19.25	0.08	0.08
02532-58-3	cis-1,3-dimethylcyclopentane	16.91	15.75	0.07	0.06
00617-78-7	3-ethylpentane	25.59	23.81	0.10	0.09
00822-50-4	trans-1,2-dimethylcyclopentane	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	157.33	144.86	0.62	0.58
00592-76-7	1-heptene	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	0.00	0.00	0.00	0.00
14686-14-7	trans-3-heptene	13.41	12.25	0.05	0.05
00142-82-5	n-heptane	53.57	50.00	0.21	0.20
00107-39-1	2,4,4-trimethyl-1-pentene	0.00	0.00	0.00	0.00
02738-19-4	2-methyl-2-hexene	13.41	12.25	0.05	0.05
14686-13-6	trans-2-heptene	0.00	0.00	0.00	0.00
00816-79-5	3-ethyl-2-pentene	0.00	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	9.91	9.33	0.04	0.04
10574-37-5	2,3-dimethyl-2-pentene	0.00	0.00	0.00	0.00
06443-92-1	cis-2-heptene	0.00	0.00	0.00	0.00
00108-87-2	methylcyclohexane	30.33	28.58	0.12	0.11
00590-73-8	2,2-dimethylhexane	0.00	0.00	0.00	0.00
00107-40-4	2,4,4-trimethyl-2-pentene	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	0.00	0.00	0.00	0.00
00592-13-2	2,5-dimethylhexane	17.22	15.44	0.07	0.06
00589-43-5	2,4-dimethylhexane	20.78	18.40	0.08	0.07
02815-58-9	1,2,4-trimethylcyclopentane	0.00	0.00	0.00	0.00
00563-16-6	3,3-dimethylhexane	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopentan	0.00	0.00	0.00	0.00
00565-75-3	2,3,4-trimethylpentane	35.62	30.87	0.14	0.12
00108-88-3	toluene	148.32	128.07	0.59	0.51
00560-21-4	2,3,3-trimethylpentane	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	16.03	14.25	0.06	0.06
00592-27-8	2-methylheptane	17.22	14.84	0.07	0.06
00589-53-7	4-methylheptane	0.00	0.00	0.00	0.00
00583-48-2	3,4-dimethylhexane	0.00	0.00	0.00	0.00
00589-81-1	3-methylheptane	17.81	14.84	0.07	0.06
00638-04-0	cis-1,3-dimethylcyclohexane	0.00	0.00	0.00	0.00
02207-04-7	trans-1,4-dimethylcyclohexane	0.00	0.00	0.00	0.00
03522-94-9	2,2,5-trimethylhexane	10.07	0.00	0.04	0.00
02613-65-2	trans-1-methyl-3-ethylcyclopentane	0.00	0.00	0.00	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	0.00	0.00	0.00	0.00
00111-66-0	1-octene	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	0.00	0.00	0.00	0.00
14850-23-8	trans-4-octene	0.00	0.00	0.00	0.00
00111-65-9	n-octane	10.69	8.91	0.04	0.04
13389-42-9	trans-2-octene	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	0.00	0.00	0.00	0.00
16747-30-1	2,4,4-trimethylhexane	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	0.00	0.00	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	0.00	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	0.00	0.00	0.00	0.00
01678-91-7	ethylcyclohexane	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	0.00	0.00	0.00	0.00
00100-41-4	ethylbenzene	12.69	7.17	0.05	0.03
01839-63-0	1,3,5-trimethylcyclohexane	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	0.00	0.00	0.00	0.00
00108-38-3	m- & p-xylene	26.49	13.24	0.10	0.05
02216-34-4	4-methyloctane	0.00	0.00	0.00	0.00
03221-61-2	2-methyloctane	0.00	0.00	0.00	0.00
02216-33-3	3-methyloctane	0.00	0.00	0.00	0.00
00100-42-5	styrene	0.54	0.00	0.00	0.00
00095-47-6	o-xylene	7.72	2.76	0.03	0.01
14720-74-2	2,2,4-trimethylheptane	0.00	0.00	0.00	0.00
06236-88-D	1-methyl-4-ethylcyclohexane	0.00	0.00	0.00	0.00

D2091-95-6	2,2,5-trimethylheptane	10.65	9.47	0.04	0.04
00124-11-8	1-nonene	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	1.78	0.59	0.01	0.00
04110-44-5	3,3-dimethyloctane	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	0.00	0.00	0.00	0.00
04032-94-4	2,4-dimethyloctane	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	0.00	0.00	0.00	0.00
00103-65-1	n-propylbenzene	8.33	0.00	0.03	0.00
00620-14-4	1-methyl-3-ethylbenzene	2.78	0.00	0.01	0.00
00622-96-8	1-methyl-4-ethylbenzene	8.33	0.00	0.03	0.00
00108-67-8	1,3,5-trimethylbenzene	1.11	0.00	0.00	0.00
00871-83-0	2-methylnonane	0.00	0.00	0.00	0.00
00611-14-3	1-methyl-2-ethylbenzene	0.00	0.00	0.00	0.00
00095-63-6	1,2,4-trimethylbenzene	2.78	0.00	0.01	0.00
00538-93-2	(2-methylpropyl)benzene	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	0.00	0.00	0.00	0.00
00124-18-5	n-decane	1.18	9.47	0.00	0.04
00535-77-3	1-methyl-3-(1-methylethyl)benzene	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	0.00	0.00	0.00	0.00
00099-87-6	1-methyl-4-(1-methylethyl)benzene	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	8.19	10.37	0.03	0.04
00527-84-4	1-methyl-2-(1-methylethyl)benzene	0.00	0.00	0.00	0.00
00141-93-5	1,3-diethylbenzene	0.00	0.00	0.00	0.00
01074-43-7	1-methyl-3-n-propylbenzene	0.00	0.00	0.00	0.00
00105-05-5	1,4-diethylbenzene	0.00	0.00	0.00	0.00
01074-55-1	1-methyl-4-n-propylbenzene	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	0.00	0.00	0.00	0.00
00135-01-3	1,2-diethylbenzene	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	0.00	0.00	0.00	0.00
01758-88-9	1,4-dimethyl-2-ethylbenzene	0.00	0.00	0.00	0.00
00874-41-9	1,3-dimethyl-4-ethylbenzene	0.00	0.00	0.00	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	0.00	0.00	0.00	0.00
02870-04-4	1,3-dimethyl-2-ethylbenzene	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	0.00	0.00	0.00	0.00
00933-98-2	1,2-dimethyl-3-ethylbenzene	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	0.00	0.00	0.00	0.00
00527-53-7	1,2,3,5-tetramethylbenzene	0.00	0.00	0.00	0.00
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenzen	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	0.00	0.00	0.00	0.00
00824-22-6	4-methylindan	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	0.00	0.00	0.00	0.00
00824-63-5	2-methylindan	0.00	0.00	0.00	0.00
00488-23-3	1,2,3,4-tetramethylbenzene	0.00	0.00	0.00	0.00
00538-68-1	n-pentylbenzene	0.00	0.00	0.00	0.00
01595-11-5	1-methyl-2-n-butylbenzene	0.00	0.00	0.00	0.00
00091-20-3	naphthalene	0.00	0.00	0.00	0.00
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzene	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	0.00	0.00	0.00	0.00
00112-40-3	n-dodecane	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal	5217.67	5031.18	20.66	20.07
NMHC-ST	NMHC Subtotal	25254.19	25067.61	100.00	100.00

LIGHT END HYDROCARBONS (MLD METHOD #)
CAS # COMPOUND

CAS #	COMPOUND	S10-RFA-BKG	S10-RFA-3	S10-RFA-3-NET	S10-RFA-4	S10-RFA-4-NET
		PPBC	PPBC	PPBC	PPBC	PPBC
00074-84-0	ethane	32	31	0	31	0
00074-85-1	ethene	60	61	1	60	0
00074-98-6	propane	164	175	11	174	10
00115-07-1	propene	23	24	1	23	0
00075-28-5	methylpropane	69	317	248	316	247
00074-86-2	ethyne	55	53	0	54	0
00106-97-8	n-butane	110	8200	8090	8240	8130
00463-49-0	1,2-propadiene	0	0	0	0	0
00624-64-6	trans-2-butene	0	41	41	41	41
00106-98-9	1-butene	0	0	0	0	0
00115-11-7	2-methylpropene	19	28	9	29	10
00590-18-1	cis-2-butene	0	51	51	50	50
00463-82-1	2,2-dimethylpropane	0	76	76	75	75
00078-78-4	2-methylbutane	93	7140	7047	7170	7077
00074-99-7	1-propyne	0	0	0	0	0
00590-19-2	1,2-butadiene	0	0	0	0	0
00106-99-0	1,3-butadiene	0	0	0	0	0
00646-04-8	trans-2-pentene	0	306	306	307	307
00513-35-9	2-methyl-2-butene	0	409	409	414	414
00109-67-1	1-pentene	0	135	135	136	136
00563-46-2	2-methyl-1-butene	0	251	251	253	253
00627-20-3	cis-2-pentene	0	167	167	170	170
00689-97-4	1-buten-3-yne	0	0	0	0	0
00503-17-3	2-butyne	0	0	0	0	0
00107-00-6	1-butyne	0	0	0	0	0
00542-92-7	1,3-cyclopentadiene	0	0	0	0	0
LE-ST	Light End Subtotal	625.00	17465.00	16843.00	17543.00	16920.00

MID-RANGE HYDROCARBONS (METHOD #1003)
CAS # COMPOUND

CAS #	COMPOUND	PHASE 1	PHASE 1	PHASE 1	PHASE 1
		S10-RFA-BKG	S10-RFA-3	S10-RFA-3-NET	S10-RFA-4
		PPBC	PPBC	PPBC	PPBC
00460-12-8	1,3-butadiyne	0	0	0	0
00563-45-1	3-methyl-1-butene	0	29	29	27
00109-66-0	n-pentane	32	1030	998	999
00078-79-5	2-methyl-1,3-butadiene	0	0	0	0
00558-37-2	3,3-dimethyl-1-butene	0	0	0	0
02004-70-8	trans-1,3-pentadiene	0	0	0	0
00075-83-2	2,2-dimethylbutane	0	163	163	158
00142-29-0	cyclopentene	0	36	36	35
00691-37-2	4-methyl-1-pentene	0	0	0	0
00760-20-3	3-methyl-1-pentene	0	27	27	25
00287-92-3	cyclopentane	0	40	40	39
00079-29-8	2,3-dimethylbutane	0	267	267	262
00563-78-0	2,3-dimethyl-1-butene	0	0	0	0
D1634-04-4	methyl-tert-butyl-ether	43	137	94	142
D0691-38-3	4-methyl-cis-2-pentene	0	0	0	0
00107-83-5	2-methylpentane	42	778	736	766
00674-76-0	4-methyl-trans-2-pentene	0	28	28	31
00096-14-0	3-methylpentane	30	420	390	414
00592-41-6	1-hexene	0	20	20	18
00763-29-1	2-methyl-1-pentene	0	37	37	36
00110-54-3	n-hexane	30	273	243	274
13269-52-8	trans-3-hexene	0	31	31	32
07642-09-3	cis-3-hexene	0	0	0	0
04050-45-7	trans-2-hexene	0	43	43	44
00625-27-4	2-methyl-2-pentene	0	0	0	0
00616-12-6	3-methyl-trans-2-pentene	0	47	47	48
01120-62-3	3-methylcyclopentene	0	35	35	36
07688-21-3	cis-2-hexene	0	23	23	23
00922-62-3	3-methyl-cis-2-pentene	0	0	0	0
00637-92-3	1-ethyl-tert-butyl-ether	0	0	0	0
00590-35-2	2,2-dimethylpentane	0	0	0	0
00096-37-7	methylcyclopentane	25	131	106	132
00108-08-7	2,4-dimethylpentane	0	112	112	114
00464-06-2	2,2,3-trimethylbutane	0	0	0	0
07385-78-6	3,4-dimethyl-1-pentene	0	0	0	0
02213-32-3	2,4-dimethyl-1-pentene	0	0	0	0
00693-89-0	1-methylcyclopentene	0	0	0	0

00071-43-2	benzene	32	206	174	213	181
03404-61-3	3-methyl-1-hexene	0	0	0	0	0
00562-49-2	3,3-dimethylpentane	0	0	0	0	0
00625-65-0	2,4-dimethyl-2-pentene	0	0	0	0	0
00110-82-7	cyclohexane	0	22	22	23	23
00692-24-0	2-methyl-trans-3-hexene	0	0	0	0	0
03683-22-5	4-methyl-trans-2-hexene	0	0	0	0	0
00591-76-4	2-methylhexane	0	0	0	0	0
00565-59-3	2,3-dimethylpentane	18	246	228	256	238
00110-83-8	cyclohexene	0	0	0	0	0
00589-34-4	3-methylhexane	16	101	85	106	90
01759-58-6	trans-1,3-dimethylcyclopentane	0	21	21	22	22
02532-58-3	cis-1,3-dimethylcyclopentane	0	18	18	19	19
00617-78-7	3-ethylpentane	0	26	26	28	28
00822-50-4	trans-1,2-dimethylcyclopentane	0	0	0	0	0
00540-84-1	2,2,4-trimethylpentane	24	185	161	194	170
00592-76-7	1-heptene	0	0	0	0	0
03899-36-3	3-methyl-trans-3-hexene	0	0	0	0	0
14686-14-7	trans-3-heptene	0	0	0	15	15
00142-82-5	n-heptane	0	56	56	60	60
00107-39-1	2,4,4-trimethyl-1-pentene	0	0	0	15	15
02738-19-4	2-methyl-2-hexene	0	0	0	0	0
14686-13-6	trans-2-heptene	0	0	0	0	0
00816-79-5	3-ethyl-2-pentene	0	0	0	0	0
10574-36-4	3-methyl-cis-2-hexene	0	0	0	0	0
10574-37-5	2,3-dimethyl-2-pentene	0	0	0	0	0
06443-92-1	cis-2-heptene	0	0	0	0	0
00108-87-2	methylcyclohexane	0	37	37	37	37
00590-73-8	2,2-dimethylhexane	0	0	0	0	0
00107-40-4	2,4,4-trimethyl-2-pentene	0	0	0	0	0
01640-89-7	ethylcyclopentane	0	0	0	0	0
00592-13-2	2,5-dimethylhexane	0	20	20	21	21
00589-43-5	2,4-dimethylhexane	0	23	23	25	25
02815-58-9	1,2,4-trimethylcyclopentane	0	0	0	0	0
00563-16-6	3,3-dimethylhexane	0	0	0	0	0
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopentan	0	0	0	0	0
00565-75-3	2,3,4-trimethylpentane	0	43	43	46	46
00108-88-3	toluene	306	588	282	628	322
00560-21-4	2,3,3-trimethylpentane	0	0	0	0	0
00584-94-1	2,3-dimethylhexane	0	19	19	22	22
00592-27-8	2-methylheptane	0	21	21	23	23
00589-53-7	4-methylheptane	0	0	0	0	0
00583-48-2	3,4-dimethylhexane	0	0	0	0	0
00589-81-1	3-methylheptane	0	22	22	24	24
00638-04-0	cis-1,3-dimethylcyclohexane	0	0	0	0	0
02207-04-7	trans-1,4-dimethylcyclohexane	0	0	0	0	0
03522-94-9	2,2,5-trimethylhexane	0	0	0	0	0
02613-65-2	trans-1-methyl-3-ethylcyclopentane	0	0	0	0	0
16747-50-5	cis-1-methyl-3-ethylcyclopentane	0	0	0	0	0
00111-66-0	1-octene	0	0	0	0	0
16747-26-5	2,2,4-trimethylhexane	0	0	0	0	0
14850-23-8	trans-4-octene	0	0	0	0	0
00111-65-9	n-octane	0	0	0	17	17
13389-42-9	trans-2-octene	0	0	0	0	0
02207-03-6	trans-1,3-dimethylcyclohexane	0	0	0	0	0
16747-30-1	2,4,4-trimethylhexane	0	0	0	0	0
07642-04-8	cis-2-octene	0	0	0	0	0
01069-53-0	2,3,5-trimethylhexane	0	0	0	0	0
02213-23-2	2,4-dimethylheptane	0	0	0	0	0
02207-01-4	cis-1,2-dimethylcyclohexane	0	0	0	0	0
01072-05-5	2,6-dimethylheptane	0	0	0	0	0
01678-91-7	ethylcyclohexane	0	0	0	0	0
00926-82-9	3,5-dimethylheptane	0	0	0	0	0
00100-41-4	ethylbenzene	37	70	33	89	52
01839-63-0	1,3,5-trimethylcyclohexane	0	0	0	0	0
03074-71-3	2,3-dimethylheptane	0	0	0	0	0
00108-38-3	m- & p-xylene	116	189	73	244	128
02216-34-4	4-methyloctane	0	17	17	19	19
03221-61-2	2-methyloctane	0	0	0	0	0
02216-33-3	3-methyloctane	0	16	16	17	17
00100-42-5	styrene	0	0	0	0	0
00095-47-6	o-xylene	57	78	21	101	44
14720-74-2	2,2,4-trimethylheptane	0	0	0	0	0
06236-88-0	1-methyl-4-ethylcyclohexane	0	0	0	0	0

02091-95-6	2,2,5-trimethylheptane	23	25	2	26	3
00124-11-8	1-nonene	0	0	0	0	0
00111-84-2	n-nonane	56	61	5	65	9
D4110-44-5	3,3-dimethyloctane	21	21	0	21	0
D0098-82-8	(1-methylethyl)benzene	0	0	0	0	0
07146-60-3	2,3-dimethyloctane	0	0	0	0	0
15869-87-1	2,2-dimethyloctane	0	0	0	0	0
15869-89-3	2,5-dimethyloctane	25	26	1	26	1
04032-94-4	2,4-dimethyloctane	0	0	0	0	0
02051-30-1	2,6-dimethyloctane	27	28	1	29	2
00103-65-1	n-propylbenzene	32	20	0	43	11
00620-14-4	1-methyl-3-ethylbenzene	54	56	2	86	32
00622-96-8	1-methyl-4-ethylbenzene	24	25	1	39	15
00108-67-8	1,3,5-trimethylbenzene	44	46	2	61	17
00871-83-0	2-methylnonane	60	65	5	59	0
00611-14-3	1-methyl-2-ethylbenzene	30	28	0	39	9
00095-63-6	1,2,4-trimethylbenzene	20	21	1	150	130
00538-93-2	(2-methylpropyl)benzene	0	0	0	0	0
00135-98-8	(1-methylpropyl)benzene	0	0	0	0	0
00124-18-5	n-decane	98	111	13	118	20
00535-77-3	1-methyl-3-(1-methylethyl)benzene	0	0	0	0	0
00526-73-8	1,2,3-trimethylbenzene	31	27	0	41	10
00099-87-6	1-methyl-4-(1-methylethyl)benzene	0	0	0	0	0
00496-11-7	2,3-dihydroindene (indan)	30	33	3	34	4
00527-84-4	1-methyl-2-(1-methylethyl)benzene	16	17	1	18	2
00141-93-5	1,3-diethylbenzene	0	0	0	15	15
01074-43-7	1-methyl-3-n-propylbenzene	31	29	0	41	10
00105-05-5	1,4-diethylbenzene	17	0	0	24	7
01074-55-1	1-methyl-4-n-propylbenzene	0	0	0	0	0
00934-74-7	1,3-dimethyl-5-ethylbenzene	23	19	0	32	9
00135-01-3	1,2-diethylbenzene	0	0	0	0	0
01074-17-5	1-methyl-2-n-propylbenzene	24	23	0	28	4
01758-88-9	1,4-dimethyl-2-ethylbenzene	17	15	0	21	4
00874-41-9	1,3-dimethyl-4-ethylbenzene	16	0	0	15	0
00934-80-5	1,2-dimethyl-4-ethylbenzene	33	27	0	44	11
02870-04-4	1,3-dimethyl-2-ethylbenzene	0	0	0	0	0
01120-21-4	n-undecane (hendecane)	21	43	22	28	7
00933-98-2	1,2-dimethyl-3-ethylbenzene	0	0	0	0	0
00095-93-2	1,2,4,5-tetramethylbenzene	15	0	0	20	5
00527-53-7	1,2,3,5-tetramethylbenzene	22	17	0	28	6
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenzen	0	0	0	0	0
00874-35-1	5-methylindan	16	0	0	20	4
00824-22-6	4-methylindan	0	0	0	0	0
16021-20-8	1-ethyl-2-n-propylbenzene	0	0	0	0	0
00824-63-5	2-methylindan	18	0	0	22	4
00488-23-3	1,2,3,4-tetramethylbenzene	0	0	0	15	15
00538-68-1	n-pentylbenzene	0	0	0	0	0
01595-11-5	1-methyl-2-n-butylbenzene	0	0	0	0	0
00091-20-3	naphthalene	18	16	0	19	1
00098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzene	0	0	0	0	0
17171-72-1	1,3-di-n-propylbenzene	0	0	0	0	0
00112-40-3	n-dodecane	0	0	0	0	0
MR-ST	Mid-Range Subtotal	1670.00	6530.00	4982.00	7146.00	5478.00
NMHC-ST	NMHC Subtotal	2295.00	23995.00	21825.00	24689.00	22398.00

LIGHT END HYDROCARBONS (MLD METHOD #)

CAS #	COMPOUND	S10-RFA-3 UG/M3	S10-RFA-4 UG/M3	S10-RFA-3 WT%	S10-RFA-4 WT%
00074-84-0	ethane	0.00	0.00	0.00	0.00
00074-85-1	ethene	0.58	0.00	0.00	0.00
00074-98-6	propane	6.72	6.11	0.05	0.05
00115-07-1	propene	0.58	0.00	0.00	0.00
00075-28-5	methylpropane	149.83	149.23	1.15	1.11
00074-86-2	ethyne	0.00	0.00	0.00	0.00
00106-97-8	n-butane	4887.70	4911.86	37.41	36.69
00463-49-0	1,2-propadiene	0.00	0.00	0.00	0.00
00624-64-6	trans-2-butene	23.91	23.91	0.18	0.18
00106-98-9	1-butene	0.00	0.00	0.00	0.00
00115-11-7	2-methylpropene	5.25	5.83	0.04	0.04
00590-18-1	cis-2-butene	29.74	29.16	0.23	0.22
00463-82-1	2,2-dimethylpropane	45.60	45.00	0.35	0.34
00078-78-4	2-methylbutane	4228.02	4246.02	32.36	31.71
00074-99-7	1-propyne	0.00	0.00	0.00	0.00
00590-19-2	1,2-butadiene	0.00	0.00	0.00	0.00
00106-99-0	1,3-butadiene	0.00	0.00	0.00	0.00
00646-04-8	trans-2-pentene	178.46	179.05	1.37	1.34
00513-35-9	2-methyl-2-butene	238.53	241.45	1.83	1.80
00109-67-1	1-pentene	78.73	79.32	0.60	0.59
00563-46-2	2-methyl-1-butene	146.39	147.55	1.12	1.10
00627-20-3	cis-2-pentene	97.40	99.15	0.75	0.74
00689-97-4	1-buten-3-yne	0.00	0.00	0.00	0.00
00503-17-3	2-butyne	0.00	0.00	0.00	0.00
00107-00-6	1-butyne	0.00	0.00	0.00	0.00
00542-92-7	1,3-cyclopentadiene	0.00	0.00	0.00	0.00
LE-ST	Light End Subtotal	10117.45	10163.63	77.43	75.91

MID-RANGE HYDROCARBONS (METHOD #1003)

CAS #	COMPOUND	S10-RFA-3 UG/M3	S10-RFA-4 UG/M3	S10-RFA-3 WT%	S10-RFA-4 WT%
00460-12-8	1,3-butadiyne	0.00	0.00	0.00	0.00
00563-45-1	3-methyl-1-butene	16.91	15.75	0.13	0.12
00109-66-0	n-pentane	598.77	580.17	4.58	4.33
00078-79-5	2-methyl-1,3-butadiene	0.00	0.00	0.00	0.00
00558-37-2	3,3-dimethyl-1-butene	0.00	0.00	0.00	0.00
02004-70-8	trans-1,3-pentadiene	0.00	0.00	0.00	0.00
00075-83-2	2,2-dimethylbutane	97.34	94.35	0.74	0.70
00142-29-0	cyclopentene	20.39	19.83	0.16	0.15
00691-37-2	4-methyl-1-pentene	0.00	0.00	0.00	0.00
00760-20-3	3-methyl-1-pentene	16.12	14.93	0.12	0.11
00287-92-3	cyclopentane	23.33	22.75	0.18	0.17
00079-29-8	2,3-dimethylbutane	159.45	156.46	1.22	1.17
00563-78-0	2,3-dimethyl-1-butene	0.00	0.00	0.00	0.00
01634-04-4	methyl-tert-butyl-ether	68.90	72.57	0.53	0.54
00691-38-3	4-methyl-cis-2-pentene	0.00	0.00	0.00	0.00
00107-83-5	2-methylpentane	439.52	432.36	3.36	3.23
00674-76-0	4-methyl-trans-2-pentene	16.33	18.08	0.12	0.14
00096-14-0	3-methylpentane	232.90	229.32	1.78	1.71
00592-41-6	1-hexene	11.66	10.50	0.09	0.08
00763-29-1	2-methyl-1-pentene	21.58	21.00	0.17	0.16
00110-54-3	n-hexane	145.11	145.71	1.11	1.09
13269-52-8	trans-3-hexene	18.08	18.66	0.14	0.14
07642-09-3	cis-3-hexene	0.00	0.00	0.00	0.00
04050-45-7	trans-2-hexene	25.08	25.66	0.19	0.19
00625-27-4	2-methyl-2-pentene	0.00	0.00	0.00	0.00
00616-12-6	3-methyl-trans-2-pentene	27.41	27.99	0.21	0.21
01120-62-3	3-methylcyclopentene	19.92	20.49	0.15	0.15
07688-21-3	cis-2-hexene	13.41	13.41	0.10	0.10
00922-62-3	3-methyl-cis-2-pentene	0.00	0.00	0.00	0.00
00637-92-3	1-ethyl-tert-butyl-ether	0.00	0.00	0.00	0.00
00590-35-2	2,2-dimethylpentane	0.00	0.00	0.00	0.00
00096-37-7	methylcyclopentane	61.82	62.40	0.47	0.47
00108-08-7	2,4-dimethylpentane	66.66	67.85	0.51	0.51
00464-06-2	2,2,3-trimethylbutane	0.00	0.00	0.00	0.00
D7385-78-6	3,4-dimethyl-1-pentene	0.00	0.00	0.00	0.00
02213-32-3	2,4-dimethyl-1-pentene	0.00	0.00	0.00	0.00
00693-89-0	1-methylcyclopentene	0.00	0.00	0.00	0.00

00071-43-2	benzene	94.19	97.98	0.72	0.73
03404-61-3	3-methyl-1-hexene	0.00	0.00	0.00	0.00
00562-49-2	3,3-dimethylpentane	0.00	0.00	0.00	0.00
00625-65-0	2,4-dimethyl-2-pentene	0.00	0.00	0.00	0.00
00110-82-7	cyclohexane	12.83	13.41	0.10	0.10
00692-24-0	2-methyl-trans-3-hexene	0.00	0.00	0.00	0.00
03683-22-5	4-methyl-trans-2-hexene	0.00	0.00	0.00	0.00
00591-76-4	2-methylhexane	0.00	0.00	0.00	0.00
00565-59-3	2,3-dimethylpentane	135.70	141.65	1.04	1.06
00110-83-8	cyclohexene	0.00	0.00	0.00	0.00
00589-34-4	3-methylhexane	50.59	53.57	0.39	0.40
01759-58-6	trans-1,3-dimethylcyclopentane	12.25	12.83	0.09	0.10
02532-58-3	cis-1,3-dimethylcyclopentane	10.50	11.08	0.08	0.08
00617-78-7	3-ethylpentane	15.47	16.67	0.12	0.12
00822-50-4	trans-1,2-dimethylcyclopentane	0.00	0.00	0.00	0.00
00540-84-1	2,2,4-trimethylpentane	95.58	100.93	0.73	0.75
00592-76-7	1-heptene	0.00	0.00	0.00	0.00
03899-36-3	3-methyl-trans-3-hexene	0.00	0.00	0.00	0.00
14686-14-7	trans-3-heptene	0.00	8.75	0.00	0.07
00142-82-5	n-heptane	33.33	35.71	0.26	0.27
00107-39-1	2,4,4-trimethyl-1-pentene	0.00	8.75	0.00	0.07
02738-19-4	2-methyl-2-hexene	0.00	0.00	0.00	0.00
14686-13-6	trans-2-heptene	0.00	0.00	0.00	0.00
00816-79-5	3-ethyl-2-pentene	0.00	0.00	0.00	0.00
10574-36-4	3-methyl-cis-2-hexene	0.00	0.00	0.00	0.00
10574-37-5	2,3-dimethyl-2-pentene	0.00	0.00	0.00	0.00
06443-92-1	cis-2-heptene	0.00	0.00	0.00	0.00
00108-87-2	methylcyclohexane	21.58	21.58	0.17	0.16
00590-73-8	2,2-dimethylhexane	0.00	0.00	0.00	0.00
00107-40-4	2,4,4-trimethyl-2-pentene	0.00	0.00	0.00	0.00
01640-89-7	ethylcyclopentane	0.00	0.00	0.00	0.00
00592-13-2	2,5-dimethylhexane	11.87	12.47	0.09	0.09
00589-43-5	2,4-dimethylhexane	13.65	14.84	0.10	0.11
02815-58-9	1,2,4-trimethylcyclopentane	0.00	0.00	0.00	0.00
00563-16-6	3,3-dimethylhexane	0.00	0.00	0.00	0.00
15890-40-1	(1a,2a,3b)-1,2,3-trimethylcyclopentan	0.00	0.00	0.00	0.00
00565-75-3	2,3,4-trimethylpentane	25.53	27.31	0.20	0.20
00108-88-3	toluene	154.34	176.23	1.18	1.32
00560-21-4	2,3,3-trimethylpentane	0.00	0.00	0.00	0.00
00584-94-1	2,3-dimethylhexane	11.28	13.06	0.09	0.10
00592-27-8	2-methylheptane	12.47	13.65	0.10	0.10
00589-53-7	4-methylheptane	0.00	0.00	0.00	0.00
00583-48-2	3,4-dimethylhexane	0.00	0.00	0.00	0.00
00589-81-1	3-methylheptane	13.06	14.25	0.10	0.11
00638-04-0	cis-1,3-dimethylcyclohexane	0.00	0.00	0.00	0.00
02207-04-7	trans-1,4-dimethylcyclohexane	0.00	0.00	0.00	0.00
03522-94-9	2,2,5-trimethylhexane	0.00	0.00	0.00	0.00
02613-65-2	trans-1-methyl-3-ethylcyclopentane	0.00	0.00	0.00	0.00
16747-50-5	cis-1-methyl-3-ethylcyclopentane	0.00	0.00	0.00	0.00
00111-66-0	1-octene	0.00	0.00	0.00	0.00
16747-26-5	2,2,4-trimethylhexane	0.00	0.00	0.00	0.00
14850-23-8	trans-4-octene	0.00	0.00	0.00	0.00
00111-65-9	n-octane	0.00	10.09	0.00	0.08
13389-42-9	trans-2-octene	0.00	0.00	0.00	0.00
02207-03-6	trans-1,3-dimethylcyclohexane	0.00	0.00	0.00	0.00
16747-30-1	2,4,4-trimethylhexane	0.00	0.00	0.00	0.00
07642-04-8	cis-2-octene	0.00	0.00	0.00	0.00
01069-53-0	2,3,5-trimethylhexane	0.00	0.00	0.00	0.00
02213-23-2	2,4-dimethylheptane	0.00	0.00	0.00	0.00
02207-01-4	cis-1,2-dimethylcyclohexane	0.00	0.00	0.00	0.00
01072-05-5	2,6-dimethylheptane	0.00	0.00	0.00	0.00
01678-91-7	ethylcyclohexane	0.00	0.00	0.00	0.00
00926-82-9	3,5-dimethylheptane	0.00	0.00	0.00	0.00
00100-41-4	ethylbenzene	18.21	28.69	0.14	0.21
01839-63-0	1,3,5-trimethylcyclohexane	0.00	0.00	0.00	0.00
03074-71-3	2,3-dimethylheptane	0.00	0.00	0.00	0.00
00108-38-3	m- & p-xylene	40.28	70.63	0.31	0.53
02216-34-4	4-methyloctane	10.07	11.26	0.08	0.08
03221-61-2	2-methyloctane	0.00	0.00	0.00	0.00
02216-33-3	3-methyloctane	9.48	10.07	0.07	0.08
00100-42-5	styrene	0.00	0.00	0.00	0.00
00095-47-6	o-xylene	11.59	24.28	0.09	0.18
14720-74-2	2,2,4-trimethylheptane	0.00	0.00	0.00	0.00
06236-88-0	1-methyl-4-ethylcyclohexane	0.00	0.00	0.00	0.00

02091-95-6	2,2,5-trimethylheptane	1.18	1.77	0.01	0.01
00124-11-8	1-nonene	0.00	0.00	0.00	0.00
00111-84-2	n-nonane	2.97	5.34	0.02	0.04
04110-44-5	3,3-dimethyloctane	0.00	0.00	0.00	0.00
00098-82-8	(1-methylethyl)benzene	0.00	0.00	0.00	0.00
07146-60-3	2,3-dimethyloctane	0.00	0.00	0.00	0.00
15869-87-1	2,2-dimethyloctane	0.00	0.00	0.00	0.00
15869-89-3	2,5-dimethyloctane	0.60	0.60	0.00	0.00
04032-94-4	2,4-dimethyloctane	0.00	0.00	0.00	0.00
02051-30-1	2,6-dimethyloctane	0.60	1.20	0.00	0.01
00103-65-1	n-propylbenzene	0.00	6.11	0.00	0.05
00620-14-4	1-methyl-3-ethylbenzene	1.11	17.77	0.01	0.13
00622-96-8	1-methyl-4-ethylbenzene	0.56	8.33	0.00	0.06
00108-67-8	1,3,5-trimethylbenzene	1.11	9.44	0.01	0.07
00871-83-0	2-methylnonane	2.96	0.00	0.02	0.00
00611-14-3	1-methyl-2-ethylbenzene	0.00	5.00	0.00	0.04
00095-63-6	1,2,4-trimethylbenzene	0.56	72.19	0.00	0.54
00538-93-2	(2-methylpropyl)benzene	0.00	0.00	0.00	0.00
00135-98-8	(1-methylpropyl)benzene	0.00	0.00	0.00	0.00
00124-18-5	n-decane	7.69	11.83	0.06	0.09
00535-77-3	1-methyl-3-(1-methylethyl)benzene	0.00	0.00	0.00	0.00
00526-73-8	1,2,3-trimethylbenzene	0.00	5.55	0.00	0.04
00099-87-6	1-methyl-4-(1-methylethyl)benzene	0.00	0.00	0.00	0.00
00496-11-7	2,3-dihydroindene (indan)	1.64	2.18	0.01	0.02
00527-84-4	1-methyl-2-(1-methylethyl)benzene	0.56	1.12	0.00	0.01
00141-93-5	1,3-diethylbenzene	0.00	8.37	0.00	0.06
01074-43-7	1-methyl-3-n-propylbenzene	0.00	5.58	0.00	0.04
00105-05-5	1,4-diethylbenzene	0.00	3.91	0.00	0.03
01074-55-1	1-methyl-4-n-propylbenzene	0.00	0.00	0.00	0.00
00934-74-7	1,3-dimethyl-5-ethylbenzene	0.00	5.02	0.00	0.04
00135-01-3	1,2-diethylbenzene	0.00	0.00	0.00	0.00
01074-17-5	1-methyl-2-n-propylbenzene	0.00	2.23	0.00	0.02
01758-88-9	1,4-dimethyl-2-ethylbenzene	0.00	2.23	0.00	0.02
00874-41-9	1,3-dimethyl-4-ethylbenzene	0.00	0.00	0.00	0.00
00934-80-5	1,2-dimethyl-4-ethylbenzene	0.00	6.14	0.00	0.05
02870-04-4	1,3-dimethyl-2-ethylbenzene	0.00	0.00	0.00	0.00
01120-21-4	n-undecane (hendecane)	13.00	4.14	0.10	0.03
00933-98-2	1,2-dimethyl-3-ethylbenzene	0.00	0.00	0.00	0.00
00095-93-2	1,2,4,5-tetramethylbenzene	0.00	2.79	0.00	0.02
00527-53-7	1,2,3,5-tetramethylbenzene	0.00	3.35	0.00	0.03
01074-92-6	1-(1,1-dimethylethyl)-2-methylbenzen	0.00	0.00	0.00	0.00
00874-35-1	5-methylindan	0.00	2.20	0.00	0.02
00824-22-6	4-methylindan	0.00	0.00	0.00	0.00
16021-20-8	1-ethyl-2-n-propylbenzene	0.00	0.00	0.00	0.00
00824-63-5	2-methylindan	0.00	2.20	0.00	0.02
00488-23-3	1,2,3,4-tetramethylbenzene	0.00	8.37	0.00	0.06
D0538-68-1	n-pentylbenzene	0.00	0.00	0.00	0.00
D1595-11-5	1-methyl-2-n-butylbenzene	0.00	0.00	0.00	0.00
D0091-20-3	naphthalene	0.00	0.53	0.00	0.00
D0098-19-1	1-(1,1-dimethylethyl)-3,5-DMbenzene	0.00	0.00	0.00	0.00
17171-72-1	1,3-di-n-propylbenzene	0.00	0.00	0.00	0.00
D0112-40-3	n-dodecane	0.00	0.00	0.00	0.00
MR-ST	Mid-Range Subtotal	2949.11	3225.47	22.57	24.09
NMHC-ST	NMHC Subtotal	13066.55	13389.11	100.00	100.00